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ABSTRACT

Graduate programs in Brazil in July 1975 were surveyed to obtain information about supply/demand and productivity. The tabular and graphic data cover institutions of higher education; number of courses, teaching staff, and student body. A minimum of narrative information is included. (LBH)

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MINISTRY OF EDUCATION AND CULTURE
DEPARTMENT OF UNIVERSITY AFFAIRS

U S DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
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# PRESENT SITUATION OF GRADUATE STUDIES BRAZIL – 75

— INSTITUTIONS OF HIGHER EDUCATION
— NUMBER OF COURSES
— TEACHING STAFF
— STUDENT BODY

HE 009 027

## PRESENTATION

In order to obtain information about supply/demand, and productivity of Graduate Level Studies in Brazil, CAPES and CNPq surveyed the existing Graduate Programs in July of 1975 in order to update 1974 data.

An initial analysis of the data by the Federal University of Rio Grande do Sul, with a grant from the Department of University Affairs, showed general incongruencies whose analysis were important to the elaboration of the National Plan of Graduate Studies (PNPG).

This second survey brings out the continuing status of many of the previous study distortions and at the same time the adequacy of certain corrective measures proposed by the PNPG. Nevertheless, the reponsible government agencies must introduce complentary actions in order to consolidate the graduate system and attain the proposed goals.

Additional studies are in the process of finalization to define the divisional policy in several fields of study. CAPES concluded studies and published documents for the fields of Education, Medicine and the Regional Program for the Northeast.

The rapid growth of graduate studies and its adaptation to specific situations makes it imperative that data be periodically updated. This will permit the clarification of doubts, omissions, and errors and even aid in correcting mistakes in the questionnaires utilized. Only in this way can the instrument serve its propose in contributing to the decision process of government agencies, as well as offer guidance for the great demand made upon this level of instruction.

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## PRESENT SITUATION OF GRADUATE STUDIES IN BRAZIL

### 1 - PROGRAMS

1.1. In December, 1975 there were 48 Institutions of Higher Education offering graduate Courses on the Master's and Doctoral levels. Table 1 shows the distribution of the Institutions according to geographic regions of Brazil.

The federal (public) Universities are divided into 18 Universities, and 10 Isolated colleges.
The State (public) Universities are divided into:
3 Universities and
1 Isolated College
The private Universities are divided into:
7 Universities, and 9 Isolated Colleges.

Compared with the total number of Institutions (46) which maintained Master's and Doctoral level programs in December of 1973, we have to consider the fact that the Federal University of Ouro Preto and the Colleges of Education in Santo André (SP) of Science and Letters in Araraquara (SP) which included in the previous survey, ceased to exist.

During the time period 1974/1975, the following institutions began graduate level studies:

1. School of Higher Education in Agriculture at Lavras, MG (ESAL).
2. National Institute of Research of the Amazon (INPA).
3. College of Medical and Biological Sciences at Botucatu, (SP).
4. The Federal University of Pernambuco (UFRPE), which in contract with the Federal University of Pernambuco, began an independent program for a Master's Degree in Fitossanidade.

The Institutions which presented the greatest relative growth were the Federal University of Paraná, the University of Brasília and the State University of São Paulo and Campinas. (Table I)

TABLE 1

SUM TOTAL OF PROGRAMS PER INSTITUTION

| NUMBER | INSTITUTION | STATE | SUM TOTAL OF PROGRAMS | | | TYPE OF INSTITUTION |
|---|---|---|---|---|---|---|
| | | | M | D | TOTAL | |
| | NORTH | | | | | |
| 01 | Instituto de Pesquisas da Amazônia (INPA) | AM | 1 | – | 1 | IF |
| 02 | Universidade Federal do Pará (UFPA) | PA | 1 | 1 | 2 | F |
| | NORTHEAST | | | | | |
| 03 | Universidade Federal do Ceará (UFCE) | CE | 5 | – | 5 | F |
| 04 | Universidade Federal da Paraíba (UFPB) | PB | 6 | – | 6 | F |
| 05 | Universidade Federal de Pernambuco(UFPE) e | PE | 21 | – | 21 | F |
| 06 | Univ. Federal Rural de Pernambuco (UFRPE) | PE | – | – | – | – |
| 07 | Faculdade de Odontologia de Pernambuco - FOP | PE | 1 | – | 1 | IP |
| 08 | Universidade Federal da Bahia (UFBA) | BA | 13 | 1 | 14 | F |
| | SOUTHEAST | | | | | |
| 09 | Universidade Federal do Rio de Janeiro (UFRJ) | RJ | 58 | 29 | 87 | F |
| 10 | Universidade Federal Fluminense (UFF) | RJ | 16 | 1 | 17 | F |
| 11 | Universidade Federal Rural do Rio de Janeiro (UFRRJ) | RJ | 2 | – | 2 | F |
| 12 | Pontifícia Universidade Católica do Rio de Janeiro (PUC-RJ) | RJ | 21 | 6 | 27 | P |
| 13 | Universidade do Estado do Rio de Janeiro (UERJ - ex UEG) | RJ | 5 | – | 5 | E |
| 14 | Universidade Gama Filho (UGF) | RJ | 1 | – | 1 | P |
| 15 | Instituto Militar de Engenharia (IME) | RJ | 6 | 1 | 7 | IF |
| 16 | Instituto de Matemática Pura e Aplicada (IMPA) | RJ | 1 | 1 | 2 | IF |
| 17 | Instituto Brasileiro de Bibliografia e Documentação (IBBD) | RJ | 1 | – | 1 | IF |
| 18 | Centro Brasileiro de Pesquisa Físicas (CBPF) | RJ | 1 | 1 | 2 | IF |
| 19 | Fundação Getúlio Vargas (FGV) | RJ | 4 | 1 | 5 | IP |

TABLE 1 (Contd.)

SUM TOTAL OF PROGRAMS PER INSTITUTION

| NUMBER | INSTITUTION | STATE | SUM TOTAL OF PROGRAMS | | | TYPE OF INSTITUTION |
|---|---|---|---|---|---|---|
| | | | M | D | TOTAL | |
| | SOUTHEAST | | | | | |
| 20 | Instituto Universitário de Pesquisas do Rio de Janeiro (IUPERJ) | RJ | 2 | – | 2 | IP |
| 21 | Universidade Federal de Minas Gerais (UFMG) | MG | 26 | 8 | 34 | F |
| 22 | Universidade Federal de Viçosa (UFV) | MG | 9 | 3 | 12 | F |
| 23 | Escola Federal de Engenharia de Itajubá (EFEI) | MG | 2 | – | 2 | IF |
| 24 | Escola Superior de Agricultura de Lavras (ESAL) | MG | 2 | – | 2 | IF |
| 25 | Universidade de São Paulo (USP) | | | | | |
| | State Capitals and | | 93 | 69 | 162 | E |
| | Other Towns | | 40 | 25 | 65 | |
| 26 | Escola Paulista de Medicina (EPM) | SP | 11 | 9 | 20 | IF |
| 27 | Pontifícia Universidade Católica de São Paulo (PUC/SP) | SP | 13 | – | 13 | P |
| 28 | Universidade Mackenzie | SP | 1 | 1 | 2 | P |
| 29 | Instituto de Física Teórica (IFT) | SP | 1 | 1 | 2 | IP |
| 30 | Instituto Brasileiro de Estudos e Pesquisas em Gastroenterologia (IBEPEGE) | SP | 1 | – | 1 | IP |
| 31 | Fundação Escola de Sociologia e Política | SP | 1 | 1 | 2 | IP |
| 32 | Fundação Getúlio Vargas (FGV) | SP | 1 | – | 1 | IP |
| 33 | Universidade Estadual de Campinas (UNICAMP) | SP | 18 | 7 | 25 | E |
| 34 | Pontifícia Universidade Católica de Campinas (PUC-C) | SP | 2 | – | 2 | P |
| 35 | Universidade Metodista Piracicaba | SP | 2 | – | 2 | P |
| 36 | Instituto de Pesquisas Espaciais (INPE) | SP | 6 | 3 | 9 | IF |
| 37 | Instituto Tecnológico da Aeronáutica (ITA) | SP | 6 | 6 | 12 | IF |

TABLE 1 (Contd.)

SUM TOTAL OF PROGRAMS PER INSTITUTION

| NUMBER | INSTITUTION | STATE | SUM TOTAL OF PROGRAMS | | | TYPE OF INSTITUTION |
|---|---|---|---|---|---|---|
| | | | M | D | TOTAL | |
| | SOUTHEAST | | | | | |
| 38 | Faculdade de Ciências Médicas e Biológicas de Botucatu (FCMBB) | SP | 1 | 1 | 2 | IE |
| 39 | Faculdade de Filosofia, Ciências e Letras "Sagrado Coração de Jesus" - Bauru (FFCLSCJ) | SP | 3 | – | 3 | IP |
| 40 | Faculdade de Filosofia, Ciências e Letras "Barão de Mauá" - Ribeirão Preto (FFCLMB) | SP | 2 | – | 2 | IP |
| | SOUTHEAST | | | | | |
| 41 | Universidade Federal do Paraná (UFPR) | PR | 12 | 2 | 14 | F |
| 42 | Universidade Federal de Santa Catarina (UFSC) | SC | 7 | – | 7 | F |
| 43 | Universidade Federal do Rio Grande do Sul (UFRGS) | RS | 26 | 3 | 29 | F |
| 44 | Universidade Federal de Santa Maria (UFSM) | RS | 10 | – | 10 | F |
| 45 | Universidade Federal de Pelotas (UFPEL) | RS | 4 | – | 4 | F |
| 46 | Pontifícia Universidade Católica do Rio Grande do Sul (PUC/RS) | RS | 7 | – | 7 | P |
| | MIDWEST | | | | | |
| 47 | Universidade de Brasília (UnB) | DF | 13 | 2 | 15 | F |
| 48 | Universidade Federal de Goiás (UFGO) | GO | 3 | – | 3 | F |

F = Federal University
IF = Federal Institution
P = Private University
IP = Private Institution
E = State University
IE = State Institution

1.2. With respect to total numbers, there were found to exist 673 programs, of which 490 are on Master's level and 183 on the Doctoral level (Table 2).

Compared with the 1973 data, it was shown that the opening of new programs has not substantially changed the distribution percentages among the field of majors. The total number of programs has not increased considerably since some have been restructured or discontinued, while others which had been included in the previous study, have been shown to be more options within the same program.

1.3. The areas of Knowledge with the greatest percentage of existing programs continue to be those of the Health Professions (21.69%), the Exact Sciences (17.38%), Technology (11.88%). See Table 2, and Graph. 1

1.4. The total number of courses actually accredited represent 37.15% of those in existence but a rapid growth is shown since in 1973 only 23.27% of the courses were accredited.

It is interesting to note that some areas have a reduced number programs accredited, or none at all, for example History, Philosophy, Law, Administration, Communication and Urban Planning. (See Tables 2, 3 and Graphs 2 e 3.)

In comparison to the total number of courses in each area, the greates percentage of accredited programs is found in the Bilogical Sciences with 63.50%, followed by the Health Professions (47.94%), Language and Letters (42.55%), and the exact sciences (38.46%)

1.5. In 1976 the forecost is for the opening of 69 new programs, with 64 at the Master's level and 5 at the Doctoral Level (See Table 4).

DEGREE PROGRAMS - BRAZIL - 1975

SUM TOTAL OF PROGRAMS AND ACCREDITED PROGRAMS ACCORDING TO DEGREE LEVEL AND PERCENTAGE WITHIN THE DIFFERENT FIELDS OF STUDY

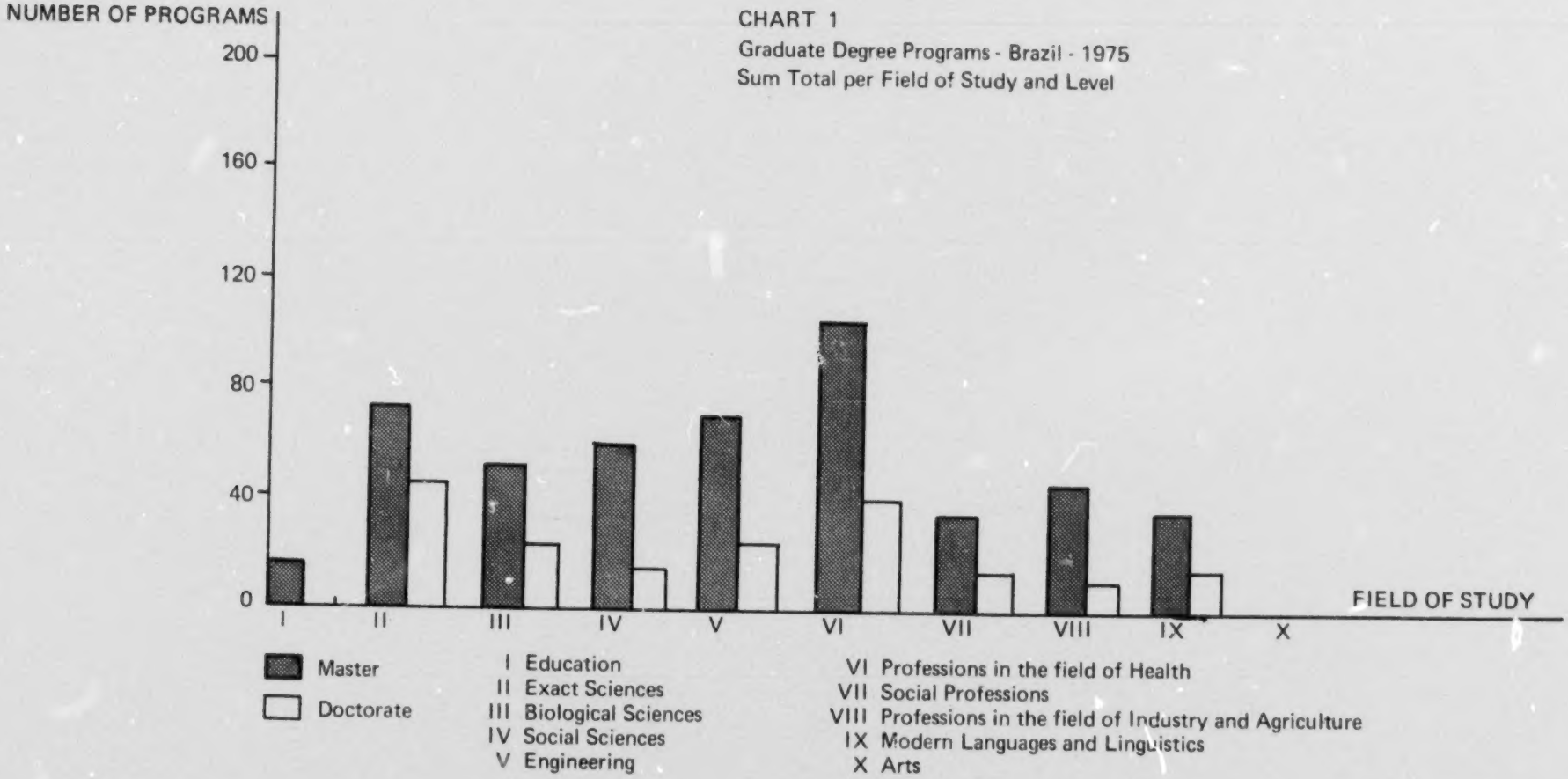
| FIELD | SUM TOTAL PER LEVEL | | SUM TOTAL | | ACCREDITED PROGRAMS | | | |
|---|---|---|---|---|---|---|---|---|
| | M | D | N.º of programs | Percentage of the no. of programs | M | D | Sum total of programs | Percentage of the sum total of programs |
| EDUCATION | 19 | – | 19 | 2,83 | 6 | – | 6 | 31,58 |
| EXACT SCIENCES | 74 | 43 | 117 | 17,38 | 29 | 16 | 45 | 38,46 |
| BIOLOGICAL SCIENCES | 54 | 26 | 80 | 11,88 | 31 | 23 | 54 | 67,50 |
| SOCIAL SCIENCES | 58 | 14 | 72 | 10,70 | 14 | 1 | 15 | 20,83 |
| ENGINEERING | 65 | 24 | 89 | 13,22 | 15 | 5 | 20 | 22,47 |
| *P. F. H.[1] | 104 | 42 | 146 | 21,69 | 47 | 23 | 70 | 47,94 |
| *SOCIAL PROFESSIONS[2] | 36 | 13 | 49 | 7,28 | 1 | – | 1 | 2,04 |
| *P. F. J. A.[3] | 44 | 9 | 53 | 7,89 | 16 | 4 | 20 | 37,73 |
| MODERN LANGUAGES AND LINGUISTICS | 35 | 12 | 47 | 6,99 | 13 | 7 | 20 | 42,55 |
| ARTS | 1 | – | 1 | 0,14 | – | – | – | – |
| TOTAL | 490 | 183 | 673 | 100,00 | 172 | 79 | 251 | 37,15 |

*1 - Professions in the field of Health (Medicine, Dentistry, Pharmacy, Nutritional Science, Nursing).
2 - Social Professions (Business Administration, Law, Library Science, Social Work, Mass Communications, Architecture).
3 - Professions in the field of Industry and Agriculture.

CHART 1

Graduate Degree Programs - Brazil - 1975

Sum Total per Field of Study and Level



DEGREE PROGRAMS - BRAZIL - 1975

TABLE 3
SUM TOTAL OF PROGRAMS AND ACCREDITED PROGRAMS PER DEGREE LEVEL AND PERCENTAGE WITHIN THE DIFFERENT FIELDS OF STUDY

| FIELD | SUM TOTAL PER LEVEL | | SUM TOTAL | | ACCREDITED PROGRAMS | | | |
|---|---|---|---|---|---|---|---|---|
| | M | D | No. of programs | Percentage of the no. of programs | M | D | Sum total of programs | Percentage of the no. of programs |
| EDUCATION | 19 | – | 19 | 2,84 | 6 | – | 6 | 31,58 |
| PHYSICS | 19 | 14 | 33 | 4,90 | 8 | 5 | 13 | 39,39 |
| MATHEMATICS AND STATISTICS | 25 | 12 | 37 | 5,49 | 7 | 1 | 8 | 21,62 |
| CHEMISTRY | 16 | 11 | 27 | 4,01 | 8 | 5 | 13 | 29,62 |
| GEOLOGY | 14 | 6 | 20 | 2,97 | 6 | 5 | 11 | 55,00 |
| BIOLOGICAL SCIENCES | 54 | 26 | 80 | 11,88 | 31 | 23 | 54 | 67,50 |
| SOCIOLOGY ANTHROPOLOGY AND POLITICS | 21 | 4 | 25 | 3,72 | 5 | – | 5 | 20,00 |
| PHILOSOPHY AND THEOLOGY | 6 | 2 | 8 | 1,18 | – | – | – | – |
| HISTORY | 9 | 2 | 11 | 1,64 | 1 | – | 1 | 9,09 |
| GEOGRAPHY | 3 | 2 | 5 | 0,74 | – | – | – | – |
| ECONOMICS | 9 | 2 | 11 | 1,64 | 5 | 1 | 6 | 54,54 |
| PSICHOLOGY | 10 | 2 | 12 | 1,72 | 3 | – | 3 | 25,00 |

TABLE 3 (Contd.)
SUM TOTAL OF PROGRAMS AND ACCREDITED PROGRAMS PER DEGREE LEVEL AND PERCENTAGE WITHIN THE DIFFERENT FIELDS OF STUDY

| FIELD | SUM TOTAL PER LEVEL | | SUM TOTAL | | ACCREDITED PROGRAMS | | | |
|---|---|---|---|---|---|---|---|---|
| | M | D | No. of Programs | Percentage of the no. of programs | M | D | Sum total of programs | Percentage of the sum total of programs |
| ENGINEERING | 65 | 24 | 89 | 13,22 | 15 | 5 | 20 | 22,47 |
| MEDICINE AND PUBLIC HEALTH | 78 | 40 | 118 | 17,59 | 34 | 23 | 57 | 48,30 |
| DENTISTRY | 18 | 2 | 20 | 2,97 | 9 | – | 9 | 45,00 |
| PHARMACY | 4 | – | 4 | 0,59 | 2 | – | 2 | 50,00 |
| NUTRITIONAL SCIENCE | 1 | – | 1 | 0,14 | 1 | – | 1 | 100,00 |
| NURSING | 3 | – | 3 | 0,44 | 1 | – | 1 | 33,33 |
| BUSINESS ADMINISTRATION | 8 | 2 | 10 | 1,49 | 1 | – | 1 | 10,00 |
| LAW | 16 | 11 | 27 | 4,01 | – | – | – | – |
| LIBRARY SCIENCE | 2 | – | 2 | 0,30 | – | – | – | – |
| MASS COMMUNICATIONS | 3 | – | 3 | 0,44 | – | – | – | – |
| ARCHITECTURE AND URBAN PLANNING | 5 | – | 5 | 0,74 | – | – | – | – |
| SOCIAL WORK | 2 | – | 2 | 0,30 | – | – | – | – |

TABLE 3 (Contd.)
SUM TOTAL OF PROGRAMS AND ACCREDITED PROGRAMS, PER DEGREE LEVEL AND PERCENTAGE WITHIN THE DIFFERENT FIELDS OF STUDY

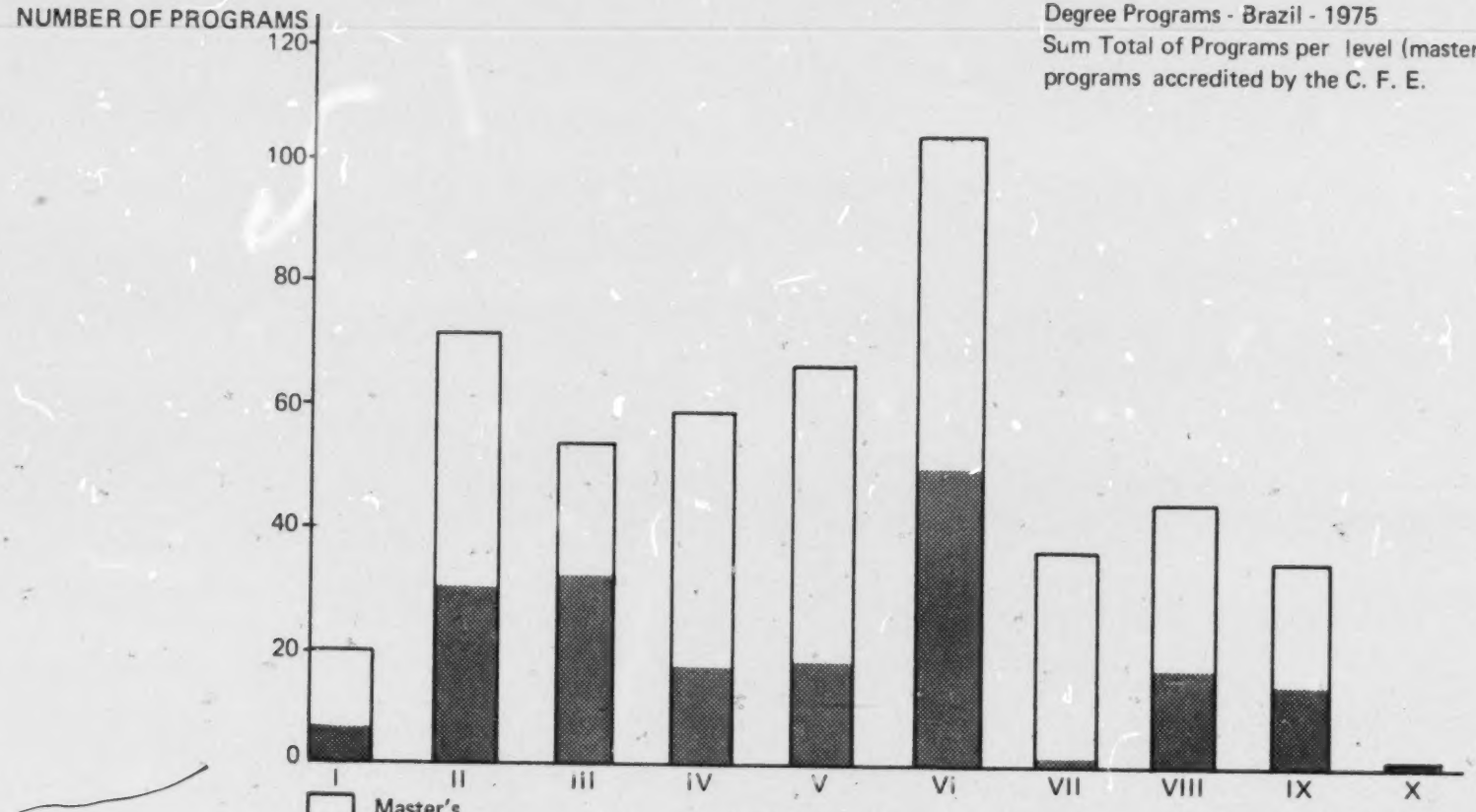
| FIELD | SUM TOTAL PER LEVEL | | SUM TOTAL | | ACCREDITED PROGRAMS | | | |
|---|---|---|---|---|---|---|---|---|
| | M | D | N.º of Programs | Percentage of the no. of programs | M | D | Sum total of programs | Percentage of the sum total of programs |
| AGRICULTURE, FORESTRY AND FOODS | 38 | 8 | 46 | 6,84 | 12 | 4 | 16 | 34,79 |
| VETERINARY | 6 | 1 | 7 | 1,05 | 4 | – | 4 | 57,14 |
| MODERN LANGUAGES AND LINGUISTICS | 35 | 12 | 47 | 6,99 | 13 | 7 | 20 | 42,55 |
| ARTS | 1 | – | 1 | 0,14 | – | – | – | – |
| SUM TOTAL | 490 | 183 | 673 | 100,00 | 172 | 79 | 251 | 37,15 |

Note: In 1975, the programs in Microbiology (UFRJ) and in Gastroenterology (PUC/RJ) leading to a master's and a doctoral degree, were reaccredited.

CHART 2

Degree Programs - Brazil - 1975

Sum Total of Programs per level (master's) and programs accredited by the C. F. E.

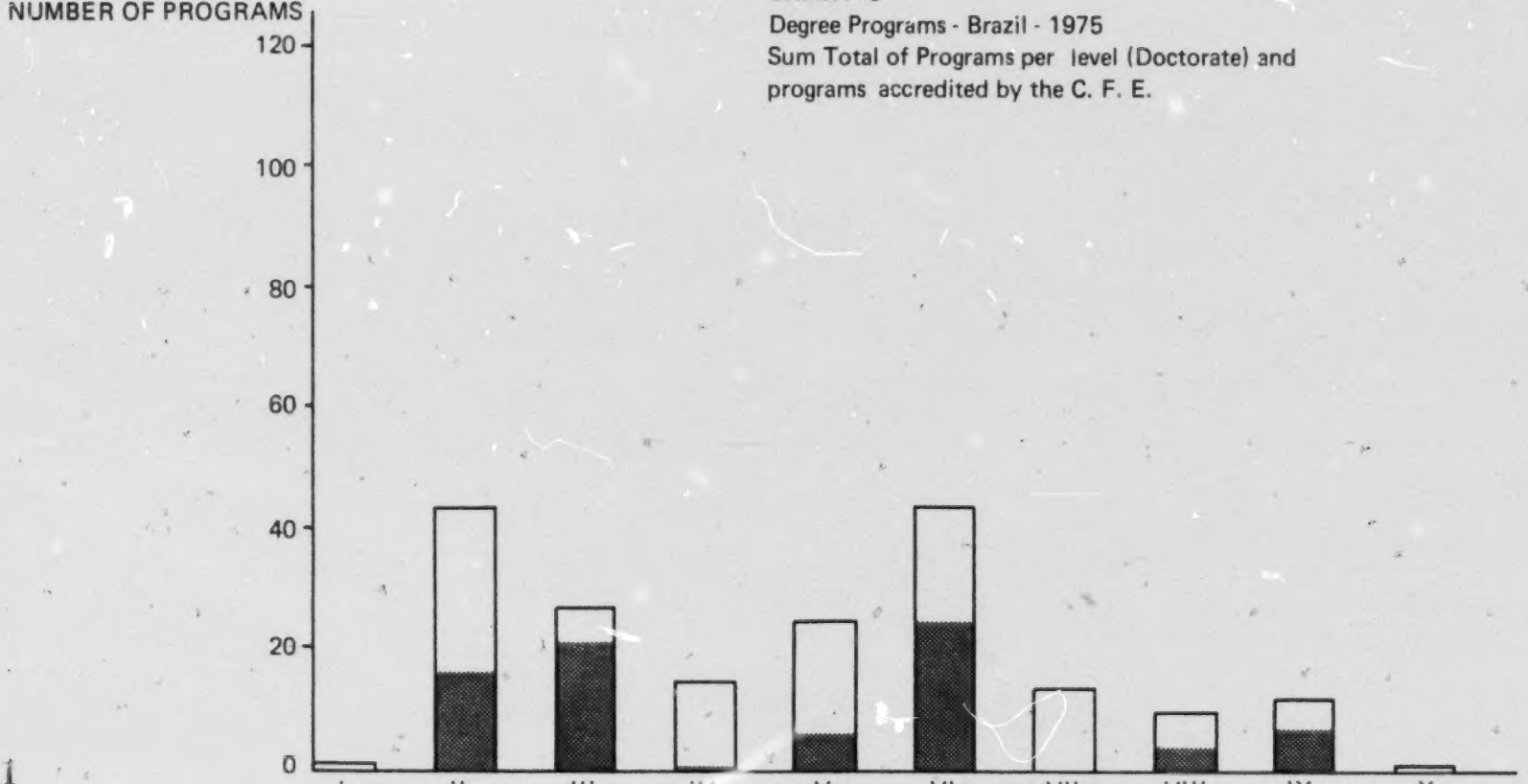



I Education
II Exact Sciences
III Biological Sciences
IV Social Sciences
V Engineering
VI Professions in the field of Health
VII Social Professions
VIII Professions in the field of Industry and Agriculture
IX Modern Languages and Linguistics
X Arts

CHART 3

Degree Programs - Brazil - 1975

Sum Total of Programs per level (Doctorate) and programs accredited by the C. F. E.




I Education
II Exact Sciences
III Biological Sciences
IV Social Sciences
V Engineering
VI Professions in the field of Health
VII Social Professions
VIII Professions in the field of Agriculture and Industry
IX Modern Languages and Linguistics
X Arts

TABLE 4

SUM TOTAL OF PROGRAMS TO BE STARTED IN 1976

| FIELD | SUM TOTAL | | | INSTITUTION |
|---|---|---|---|---|
| | M | D | TOTAL | |
| EDUCATION | 3 | 1 | 4 | UFC - PUC/RJ - FFCLBM - UF SÃO CARLOS |
| EXACT SCIENCES | 11 | 2 | 13 | UFC - PUC/CAMPINAS - UFRJ - UFRRJ - FEFIERJ - UFSC - UFRGS - UnB - UNICAMP - |
| BIOLOGICAL SCIENCES | 6 | 4 | 10 | INPA - UFPA - UNESP/RIO CLARO - FCMB BOTUCATU - UNICAMP - FURG - USP - UFRGS |
| SOCIAL SCIENCES | 10 | – | 10 | UFC - UFPB - UFPA - UNICAMP - UFSC - UnB - UFRJ - UGF - UFPA |
| ENGINEERING | 1 | 1 | 2 | UFRJ - IME |
| *P. F. H. | 15 | 2 | 17 | UFPA - UFC - FOPE - FEFIERJ - USP - FCMBB - UFSC - UFRJ - UFRGS - UnB - UFGO - UFPE - |
| SOCIAL PROFESSIONS | 8 | – | 8 | UFPA - UFPB - U MACKENZIE - UFRGS - UnB - UFBA |
| *P. F. I. A. | 19 | – | 19 | UFC - UFPE - UFRPE - ESAL - UNESP/JABOTICABAL - UNICAMP - UF SÃO CARLOS - FCMBB - USP/ESALQ - UnB - FURG |
| MODERN LANGUAGES AND LINGUISTICS | 2 | – | 2 | UFPE - UFBA |
| ARTS | – | – | – | – |
| SUM TOTAL | 75 | 10 | 85 | |

* P. F. H. = Professions in the Field of Health
* P. F. I. A. = Professions in the Field of Industry and Agriculture

DEGREE PROGRAMS - BRAZIL - 1975

TABLE 5

SUM TOTAL OF PROGRAMS OFFERED IN 1974/1976

| FIELD | NUMBER OF PROGRAMS ACCORDING TO STARTING DATE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1974 | | | 1975 | | | 1976 - ESTIMATE | | |
| | M | D | TOTAL | M | D | TOTAL | M | D | TOTAL |
| EDUCATION | 1 | – | 1 | 3 | – | 3 | 3 | 1 | 4 |
| EXACT SCIENCES | 4 | 3 | 7 | 6 | 5 | 11 | 11 | 2 | 13 |
| BIOLOGICAL SCIENCES | 4 | 1 | 5 | 6 | 2 | 8 | 6 | 4 | 10 |
| SOCIAL SCIENCES | 8 | 3 | 11 | 3 | – | 3 | 10 | – | 10 |
| ENGINEERING | 2 | 4 | 6 | 1 | 1 | 2 | 1 | 1 | 2 |
| *P. F. H. | 8 | 5 | 13 | 12 | 7 | 19 | 15 | 2 | 17 |
| *SOCIAL PROFESSIONS | 4 | 2 | 6 | 4 | 1 | 5 | 8 | – | 8 |
| *P. F. I. A. | 6 | 3 | 9 | 6 | – | 6 | 20 | – | 20 |
| MODERN LANGUAGES AND LINGUISTICS | 1 | – | 1 | 4 | – | 4 | 2 | – | 2 |
| ARTS | – | – | – | 1 | – | 1 | – | – | – |
| SUM TOTAL | 38 | 21 | 59 | 46 | 16 | 62 | 76 | 10 | 86 |

* P. F. H. = Professions in the Field of Health

* Social Professions (Business Administration, Law, Library Science, Social Work, Mass Communications, Architecture)

* P. F. I. A. = Professions in the Field of Industry and Agriculture

1.6. The number of courses begun in 1974 and 1975, totalling 121, 84 on the Masters' Level and 37 on the Doctoral Level (See Table 5) shows that there is a continous overall growth with emphasis on the exact sciences and health professions, and especially in the agro-industrial professions.

1.7. The growth between 1966 and 1975 shows that the majority of areas has grown constantly since 1970 with the exception of Engineering and Chemistry which have not grown significantly in the last three years (Tables 6 and 7).

1.8. The regional distribution (Table 8, Map 1, and Graph 12) demonstrates the continued concentration of programs and openings in the Southeast region, since 71.92% of the courses are situated in the Rio-São Paulo zone.

DEGREE PROGRAMS - BRAZIL - 1975

TABLE 6
DEVELOPMENT IN THE NUMBER OF PROGRAMS UNTIL 1975
ACCORDING TO STARTING DATE

| FIELD | | BEFORE 1966 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | TOTAL 1966/75 | TOTAL BEFORE 1966 | TOTAL SUM TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EDUCATION | M | 1 | – | – | – | 2 | 1 | 4 | 6 | 1 | 1 | 3 | 18 | 1 | 19 |
| | D | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| EXACT SCIENCES | M | 6 | 2 | 3 | 6 | 9 | 15 | 7 | 7 | 9 | 4 | 6 | 68 | 6 | 74 |
| | D | 4 | – | 1 | 1 | 4 | 14 | 3 | 4 | 4 | 3 | 5 | 39 | 4 | 43 |
| BIOLOGICAL SCIENCES | M | 4 | – | 2 | – | 4 | 7 | 13 | 6 | 8 | 4 | 6 | 50 | 4 | 54 |
| | D | 5 | – | 1 | – | 1 | 5 | 6 | 2 | 3 | 1 | 2 | 21 | 5 | 26 |
| SOCIAL SCIENCES | M | 1 | 2 | 3 | 4 | 1 | 4 | 11 | 13 | 8 | 8 | 3 | 57 | 1 | 58 |
| | D | 1 | – | – | – | – | 1 | 6 | 2 | – | 4 | – | 13 | 1 | 14 |
| ENGINEERING | M | 7 | 3 | 4 | 4 | 3 | 17 | 12 | 7 | 5 | 2 | 1 | 58 | 7 | 65 |
| | D | – | – | – | 2 | 3 | 5 | 4 | 3 | 2 | 4 | 1 | 24 | – | 24 |
| *SOCIAL PROFESSIONS | M | – | – | – | – | – | 4 | 12 | 7 | 5 | 4 | 4 | 36 | – | 36 |
| | D | – | – | – | – | – | 3 | 4 | – | 3 | 2 | 1 | 13 | – | 13 |
| *P. F. H. | M | – | – | – | – | 2 | 6 | 20 | 29 | 27 | 8 | 12 | 104 | – | 104 |
| | D | – | – | – | 1 | – | 3 | 14 | 5 | 7 | 5 | 7 | 42 | – | 42 |
| *P. F. I. A. | M | 7 | – | – | 2 | 3 | 9 | 2 | 6 | 3 | 6 | 6 | 37 | 7 | 44 |
| | D | – | – | – | – | – | 4 | 1 | 2 | – | 2 | – | 9 | – | 9 |
| MODERN LANGUAGES AND LINGUISTICS | M | – | – | – | 8 | – | 5 | 12 | 1 | 4 | 1 | 4 | 35 | – | 35 |
| | D | – | – | – | 8 | – | – | 3 | – | 1 | – | – | 12 | – | 12 |
| ARTS | M | – | – | – | – | – | – | – | – | – | – | 1 | 1 | – | 1 |
| | D | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| TOTAL | M | 26 | 7 | 12 | 24 | 24 | 68 | 93 | 82 | 70 | 38 | 46 | 464 | 26 | 490 |
| | D | 10 | – | 2 | 12 | 8 | 35 | 41 | 18 | 20 | 21 | 16 | 173 | 10 | 183 |

* Social Professions (Business Administration, Law, Library Science, Social Work, Mass Communications, Architecture)
* P. F. H. = Professions in the Field of Health
* P. F. I. A. = Professions in the Field of Industry and Agriculture

TABLE 7
DEVELOPMENT IN THE NUMBER OF PROGRAMS FROM 1966
UNTIL 1975, ACCORDING TO STARTING DATE

| FIELD | | BEFORE 1966 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | TOTAL PERIOD 1966/75 | TOTAL BEFORE 1966 | TOTAL SUM TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EDUCATION | M | 1 | – | – | – | 2 | 1 | 4 | 6 | 1 | 1 | 3 | 18 | 1 | 19 |
| | D | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| PHYSICS | M | 3 | 1 | – | 1 | – | 3 | 2 | 2 | 4 | 1 | 2 | 16 | 3 | 19 |
| | D | 2 | – | – | 1 | 2 | 3 | 1 | – | 1 | 2 | 2 | 12 | 2 | 14 |
| MATHEMATICS, STATISTICS | M | 2 | 1 | 1 | 3 | 3 | 5 | 2 | 2 | 2 | 2 | 2 | 23 | 2 | 25 |
| | D | 1 | – | – | – | 1 | 4 | – | 1 | 2 | – | 3 | 11 | 1 | 12 |
| CHEMISTRY | M | 1 | – | 2 | – | 4 | 4 | 2 | 2 | – | 1 | – | 15 | 1 | 16 |
| | D | 1 | – | 1 | – | – | 4 | 2 | 2 | 1 | – | – | 10 | 1 | 11 |
| GEOLOGY | M | – | – | – | 2 | 2 | 3 | 1 | 1 | 3 | – | 2 | 14 | – | 14 |
| | D | – | – | – | – | 1 | 3 | – | 1 | – | 1 | – | 6 | – | 6 |
| BIOLOGICAL SCIENCES | M | 4 | – | 2 | – | 4 | 7 | 13 | 6 | 8 | 4 | 6 | 50 | 4 | 54 |
| | D | 5 | – | 1 | – | 1 | 5 | 6 | 2 | 3 | 1 | 2 | 21 | 5 | 26 |
| BUSINESS ADMINISTRATION | M | – | – | – | – | – | 2 | – | 2 | 2 | 2 | – | 8 | – | 8 |
| | D | – | – | – | – | – | 2 | – | – | – | – | – | 2 | – | 2 |
| LAW | M | – | – | – | – | – | – | 9 | 2 | 2 | 1 | 2 | 16 | – | 16 |
| | D | – | – | – | – | – | 1 | 4 | – | 3 | 2 | 1 | 11 | – | 11 |
| LIBRARY SCIENCE | M | – | – | – | – | – | 1 | – | – | – | – | 1 | 2 | – | 2 |
| | D | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| MASS COMMUNICATIONS | M | – | – | – | – | – | – | – | 2 | – | 1 | – | 3 | – | 3 |
| | D | – | – | – | – | – | – | – | – | – | – | – | – | – | – |

TABLE 7 (Contd.)
DEVELOPMENT IN THE NUMBER OF PROGRAMS IN THE PERIOD BETWEEN 1966/75, ACCORDING TO STARTING DATE

| FIELD | | BEFORE 1966 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | TOTAL PERIOD 1966/75 | TOTAL BEFORE 1966 | TOTAL SUM TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARCHITECTURE | M | – | – | – | – | – | 1 | 2 | – | 1 | – | 1 | 5 | – | 5 |
| | D | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| SOCIAL WORK | M | – | – | – | – | – | – | 1 | 1 | – | – | – | 2 | – | 2 |
| | D | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| ENGINEERING | M | 7 | 3 | 4 | 4 | 3 | 17 | 2 | 7 | 5 | 2 | 1 | 58 | 7 | 65 |
| | D | – | – | – | 2 | 3 | 5 | 4 | 3 | 2 | 4 | 1 | 24 | – | 24 |
| SOCIOLOGY, ANTHROPOLOGY POLITICAL SCIENCE | M | 1 | – | 2 | 3 | 1 | 1 | 3 | 3 | 2 | 4 | 1 | 20 | 1 | 21 |
| | D | 1 | – | – | – | – | – | 1 | 1 | – | 1 | – | 3 | 1 | 4 |
| PHILOSOPHY AND THEOLOGY | M | – | – | – | – | – | – | 1 | 2 | 1 | 2 | – | 6 | – | 6 |
| | D | – | – | – | – | – | – | 1 | 1 | – | – | – | 2 | – | 2 |
| HISTORY | M | – | – | – | – | – | – | 3 | 3 | 2 | 1 | – | 9 | – | 9 |
| | D | – | – | – | – | – | – | 2 | – | – | – | – | 2 | – | 2 |
| GEOGRAPHY | M | – | – | – | – | – | – | 2 | 1 | – | – | – | 3 | – | 3 |
| | D | – | – | – | – | – | – | 2 | – | – | – | – | 2 | – | 2 |
| ECONOMICS | M | – | 1 | 1 | 1 | – | 1 | 1 | 1 | 2 | 1 | – | 9 | – | 9 |
| | D | – | – | – | – | – | – | – | – | – | 2 | – | 2 | – | 2 |
| PSYCHOLOGY | M | – | 1 | – | – | – | 2 | 1 | 3 | 1 | – | 2 | 10 | – | 10 |
| | D | – | – | – | – | – | 1 | – | – | – | 1 | – | 2 | – | 2 |

TABLE 7 (Contd.)

DEVELOPMENT IN THE NUMBER OF PROGRAMS FROM 1966 UNTIL 1975,
ACCORDING TO STARTING DATE

| FIELD | | BEFORE 1966 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | TOTAL PERIOD 1966/75 | TOTAL BEFORE 1966 | TOTAL SUM TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEDICINE AND PUBLIC HEALTH | M | – | – | – | – | 1 | 3 | 15 | 22 | 22 | 6 | 9 | 78 | – | 78 |
| | D | – | – | – | 1 | – | 2 | 14 | 5 | 7 | 5 | 6 | 40 | – | 40 |
| DENTISTRY | M | – | – | – | – | 1 | 2 | 4 | 5 | 3 | 1 | 2 | 18 | – | 18 |
| | D | – | – | – | – | – | 1 | – | – | – | – | 1 | 2 | – | 2 |
| PHARMACY | M | – | – | – | – | – | 1 | – | 1 | 1 | 1 | – | 4 | – | 4 |
| | D | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| NUTRITIONAL SCIENCE | M | – | – | – | – | – | – | 1 | – | – | – | – | 1 | – | 1 |
| | D | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| NURSING | M | – | – | – | – | – | – | – | 1 | 1 | – | 1 | 3 | – | 3 |
| | D | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| AGRICULTURE, FORESTRY AND FOODS | M | 6 | – | – | 1 | 2 | 9 | 2 | 4 | 3 | 5 | 6 | 32 | 6 | 38 |
| | D | – | – | – | – | – | 4 | 1 | 1 | | 2 | – | 8 | – | 8 |
| VETERINARY | M | 1 | – | – | 1 | 1 | | – | 2 | – | 1 | – | 5 | 1 | 6 |
| | D | – | – | – | – | – | – | – | 1 | – | – | – | 1 | – | 1 |
| MODERN LANGUAGES AND LINGUISTICS | M | – | – | – | 8 | – | 5 | 12 | 1 | 4 | 1 | 4 | 35 | – | 35 |
| | D | – | – | – | 8 | – | – | 3 | – | 1 | – | – | 12 | – | 12 |
| ARTS | M | – | – | – | – | – | – | – | – | – | – | 1 | 1 | – | 1 |
| | D | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| SUM TOTAL | M | 26 | 7 | 12 | 24 | 24 | 68 | 93 | 82 | 70 | 38 | 46 | 464 | 26 | 490 |
| | D | 10 | – | 2 | 12 | 8 | 35 | 41 | 18 | 20 | 21 | 16 | 173 | 10 | 183 |

TABLE 8

SUM TOTAL OF PROGRAMS PER FIELD AND REGION, ACCORDING TO DEGREE LEVEL AND PERCENTAGE

| FIELD / REGION | EDUCATION | | | EXACT SCIENCES | | | BIOLOGICAL SCIENCES | | | SOCIAL SCIENCES | | | TECHNICAL PROFESSIONS | | | *P. F. H. | | | SOCIAL PROFESSIONS | | | *P. F. I. A. | | | LETTERS AND LINGUISTICS | | | ARTS | | | TOTAL | | SUM TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | D | TOT. | M | D | TOT. | M | D | TOT. | M | D | TOT. | M | D | TOT. | M | D | TOT. | M | D | TOT. | M | D | TOT. | M | D | TOT. | M | D | TOT. | M | D | TOT. | % |
| NORTH | – | – | – | 1 | 1 | 2 | 1 | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | 1 | 3 | 0,45 |
| NORTHEAST | 1 | – | 1 | 13 | 1 | 14 | 6 | – | 6 | 6 | – | 6 | 4 | – | 4 | 10 | – | 10 | 3 | – | 3 | 2 | – | 2 | 1 | – | 1 | – | – | – | 46 | 1 | 47 | 6,98 |
| 1. MG - SOUTHEAST | 1 | – | 1 | 4 | 2 | 6 | 5 | 2 | 7 | 3 | – | 3 | 7 | – | 7 | 4 | 3 | 7 | 2 | 1 | 3 | 12 | 3 | 15 | 1 | – | 1 | – | – | – | 39 | 11 | 50 | 7,42 |
| 2. RJ - SOUTHEAST | 4 | – | 4 | 15 | 8 | 23 | 9 | 3 | 12 | 12 | 2 | 14 | 21 | 7 | 28 | 34 | 10 | 44 | 9 | 1 | 10 | 5 | – | 5 | 10 | 9 | 19 | – | – | – | 119 | 40 | 159 | 23,62 |
| 3. SP - SOUTHEAST | 8 | – | 8 | 31 | 27 | 58 | 24 | 18 | 42 | 24 | 12 | 36 | 25 | 17 | 42 | 44 | 29 | 73 | 17 | 11 | 28 | 11 | 6 | 17 | 17 | 3 | 20 | 1 | – | 1 | 202 | 123 | 325 | 48,30 |
| SOUTH | 4 | – | 4 | 5 | 2 | 7 | 8 | 3 | 11 | 8 | – | 8 | 8 | – | 8 | 12 | – | 12 | 3 | – | 3 | 14 | – | 14 | 4 | – | 4 | – | – | – | 66 | 5 | 71 | 10,56 |
| MID WEST | 1 | – | 1 | 5 | 2 | 7 | 1 | – | 1 | 5 | – | 5 | 5 | – | 5 | – | – | – | 2 | – | 2 | – | – | – | 2 | – | 2 | – | – | – | 21 | 2 | 23 | 2,67 |
| TOTAL | 19 | – | 19 | 74 | 43 | 117 | 54 | 26 | 80 | 58 | 14 | 72 | 70 | 24 | 94 | 104 | 42 | 146 | 36 | 13 | 49 | 44 | 9 | 53 | 35 | 12 | 47 | 1 | – | 1 | 495 | 183 | 678 | 100,00 |
| SUM TOTAL | 19 | | | 117 | | | 80 | | | 72 | | | 94 | | | 146 | | | 49 | | | 53 | | | 47 | | | 1 | | | 678 | | | |

*P. F. H. = Professions in the Field of Health
*P. F. I. A. = Professions in the Field of Industry and Agriculture
1. Minas Gerais
2. Rio de Janeiro
3. São Paulo

## MAPA 1

### GRADUATE DEGREE PROGRAMS

### DISTRIBUTION PER FIELD OF STUDY, STATE AND DEGREE LEVEL

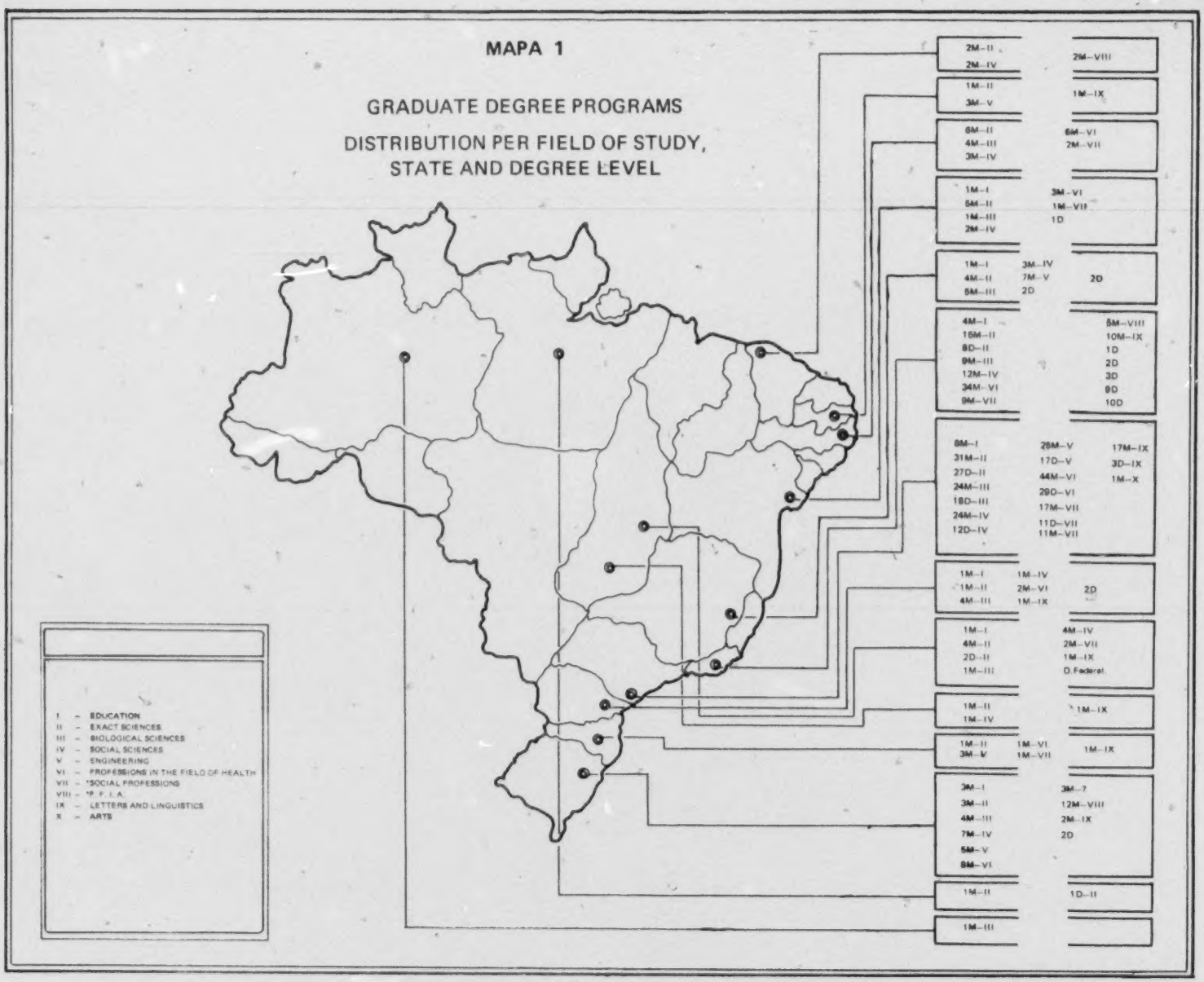


CHART 5

DEVELOPMENT OF GRADUATE DEGREE
PROGRAMS IN BRAZIL UNTIL 1975

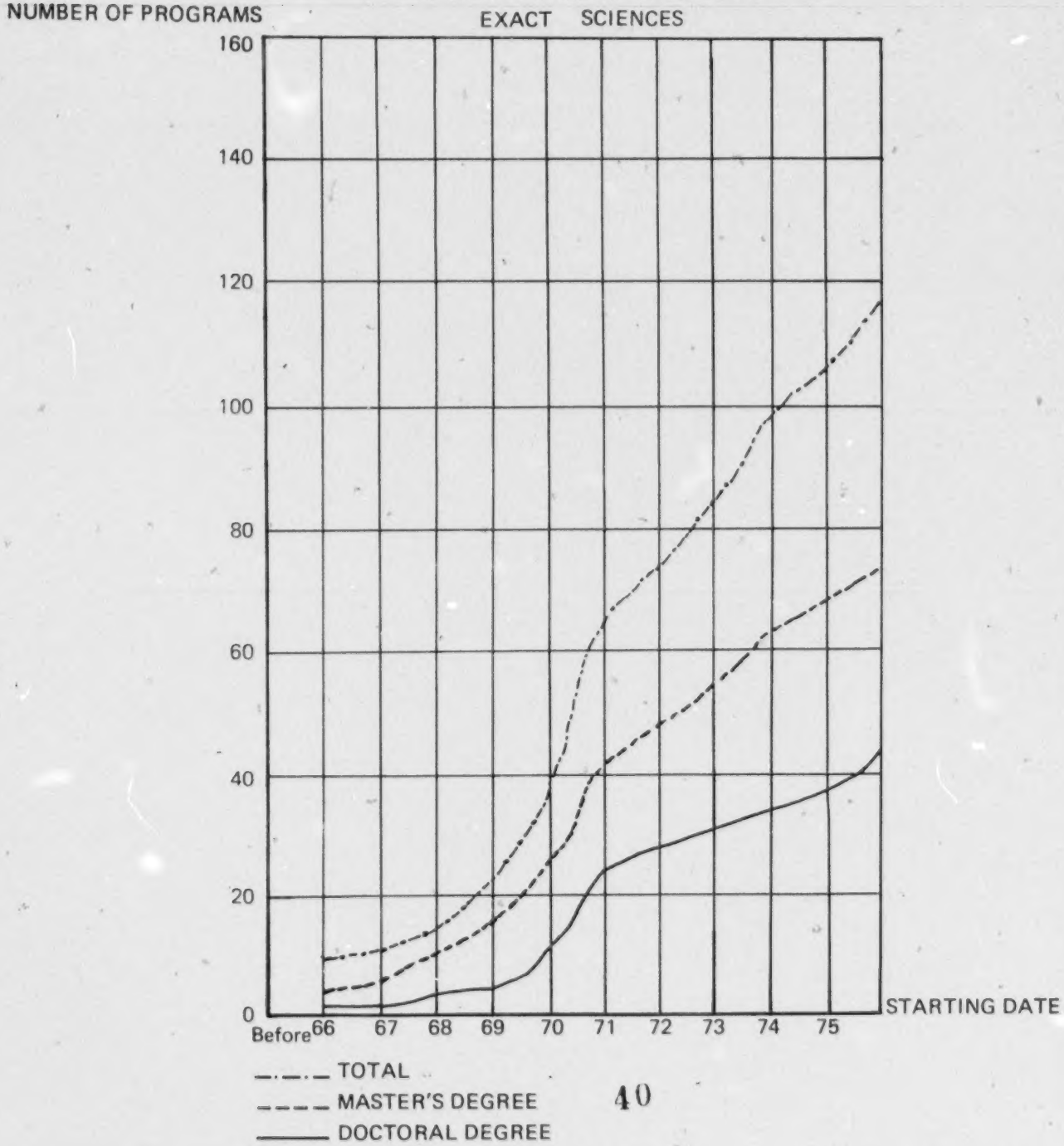


CHART 4

DEVELOPMENT OF GRADUATE DEGREE PROGRAMS IN BRAZIL UNTIL 1975

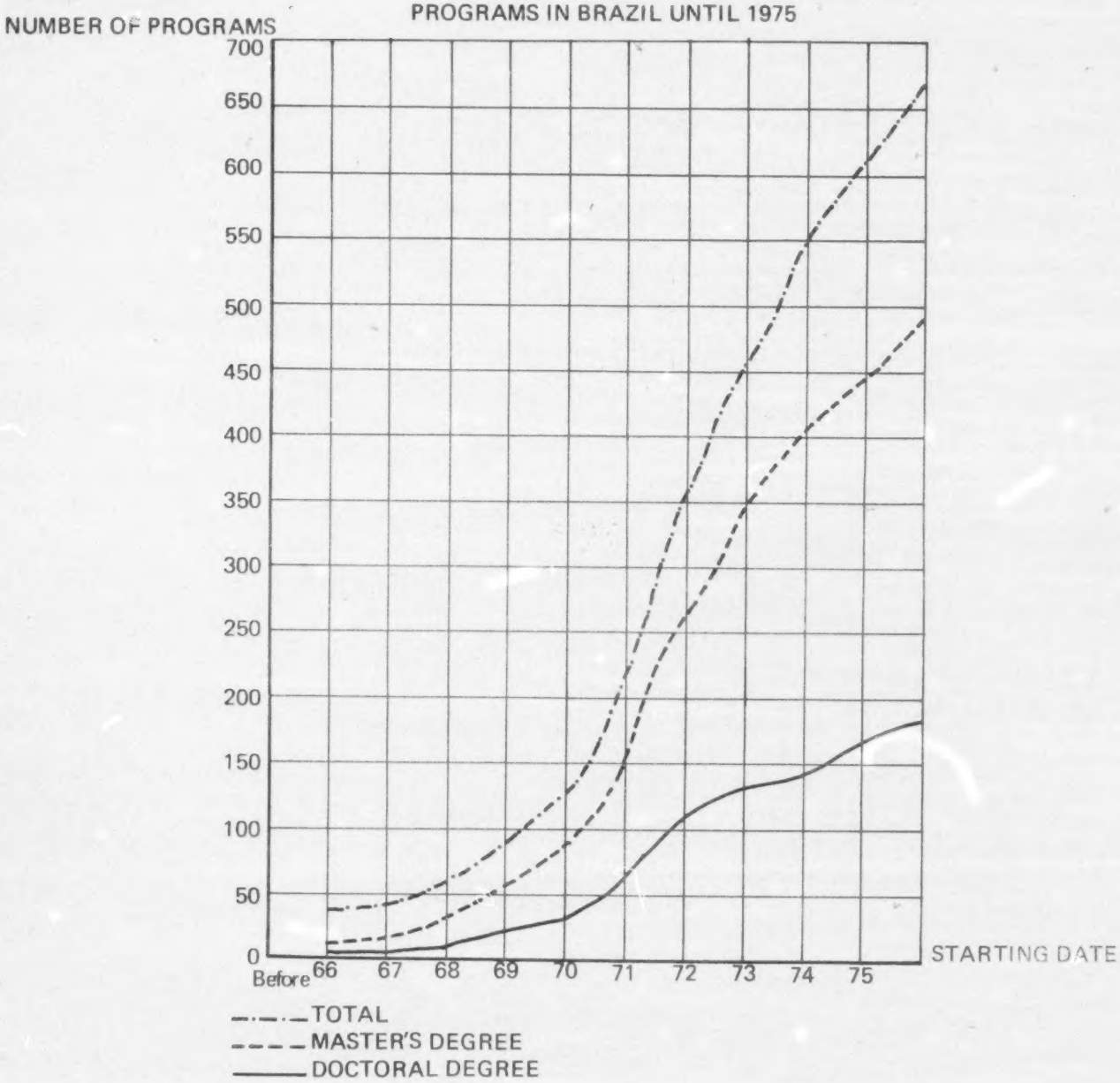


CHART 6

DEVELOPMENT OF GRADUATE DEGREE PROGRAMS IN BRAZIL UNTIL 1975

ENGINEERING

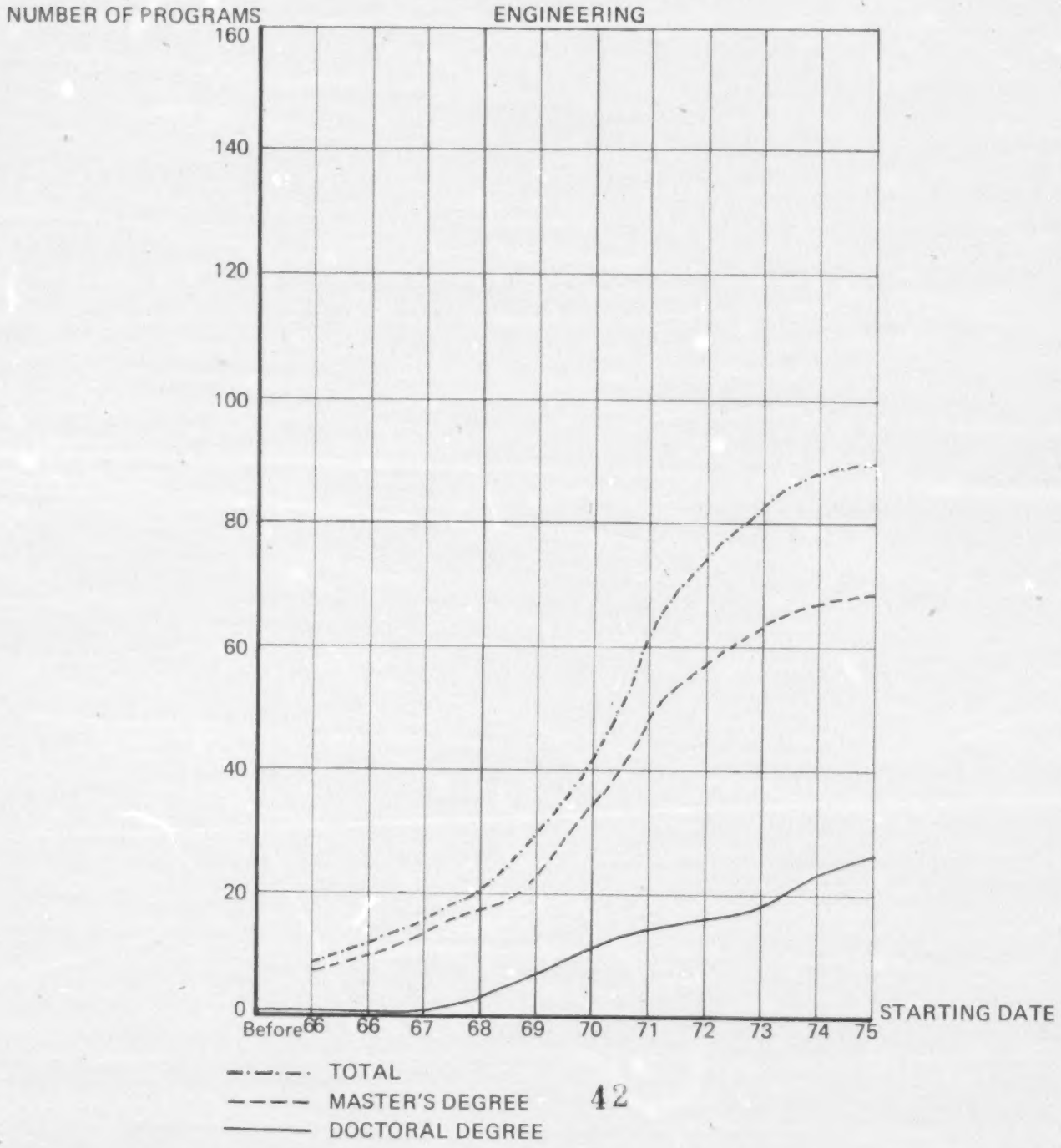


CHART 7

DEVELOPMENT OF GRADUATE DEGREE
PROGRAMS IN BRAZIL UNTIL 1975
BIOLOGICAL SCIENCES

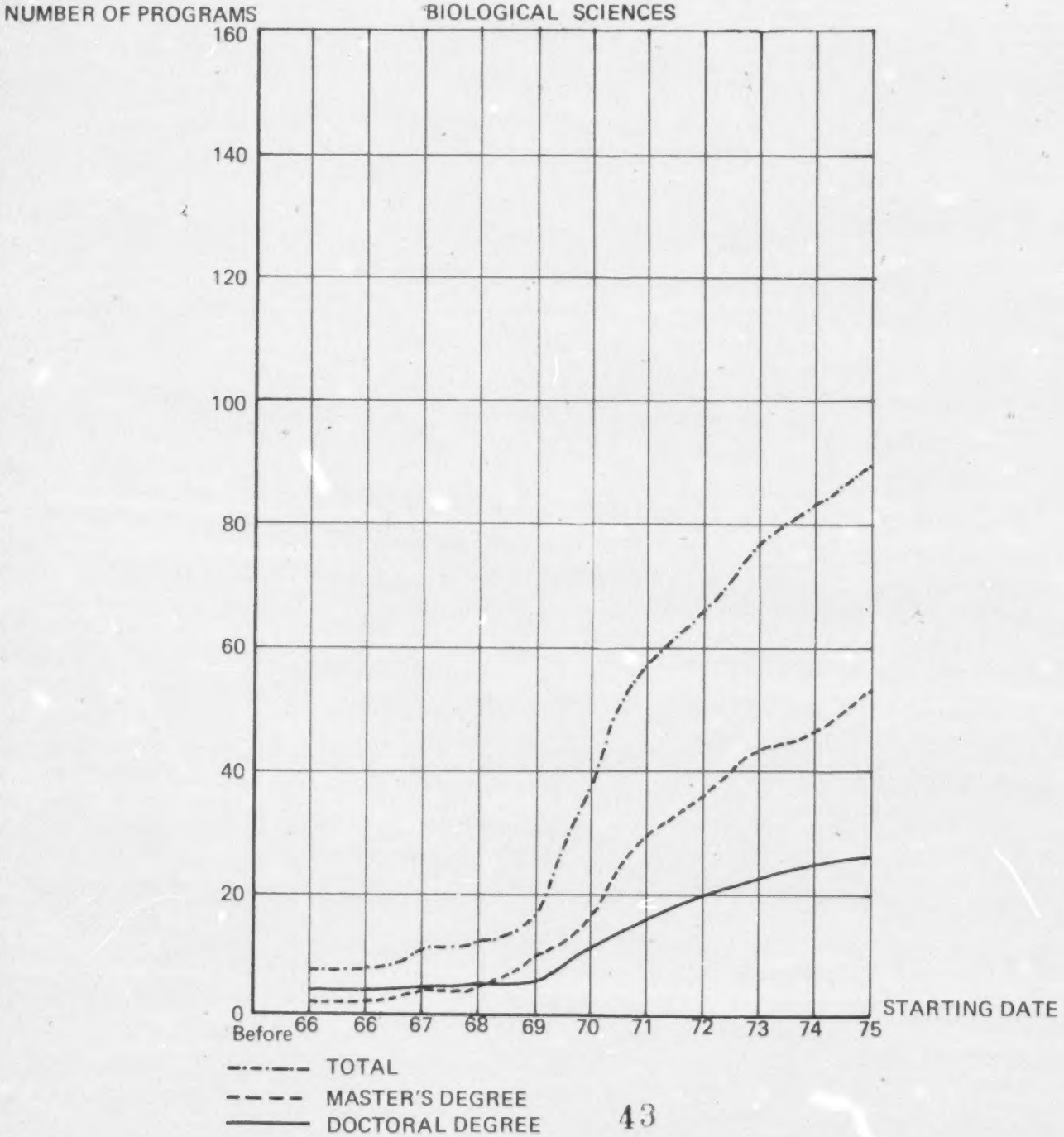


CHART 8

DEVELOPMENT OF GRADUATE DEGREE PROGRAMS IN BRAZIL UNTIL 1975
PROFESSIONS IN THE FIELD OF HEALTH

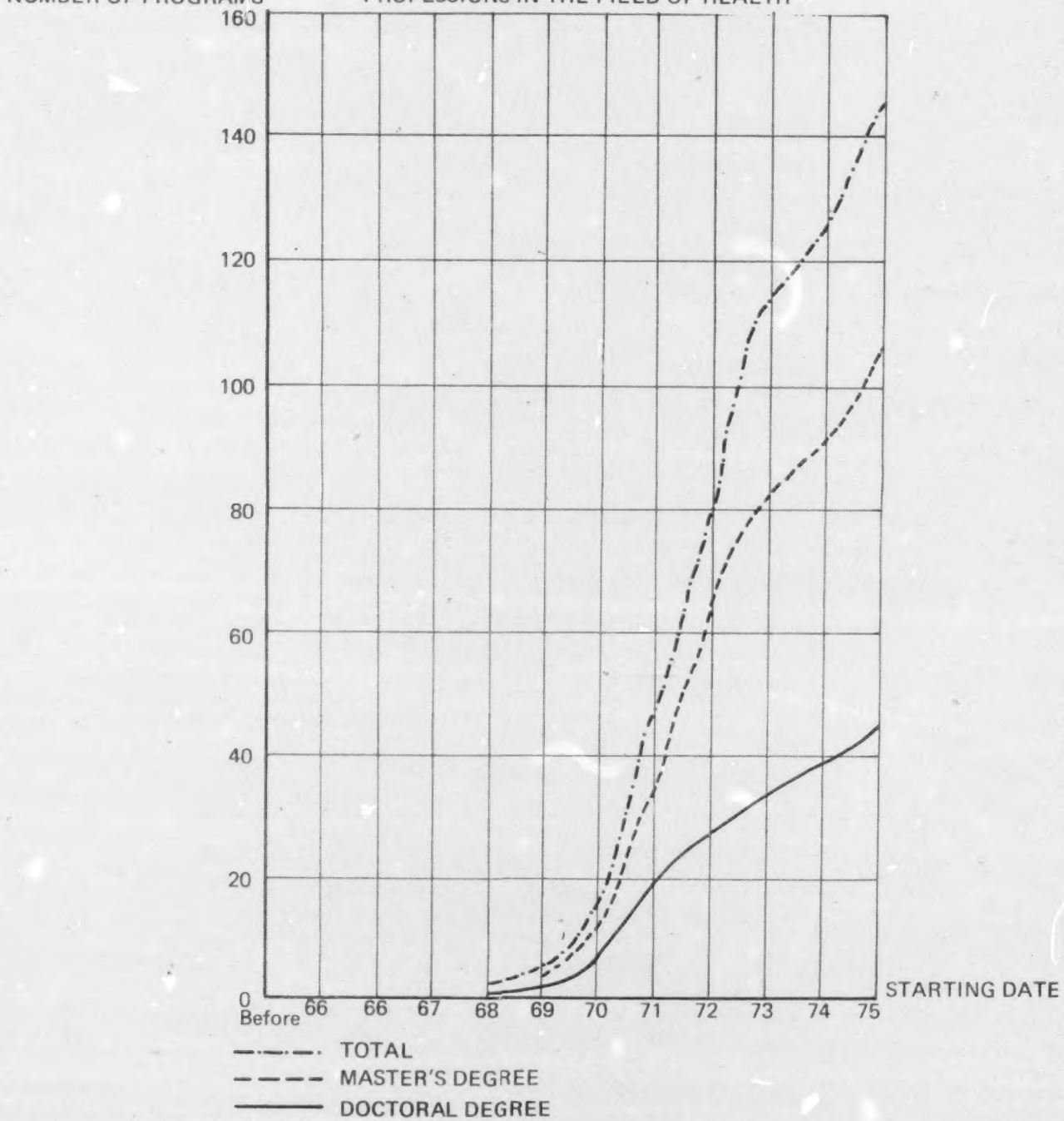


CHART 9

DEVELOPMENT OF GRADUATE DEGREE
PROGRAMS IN BRAZIL UNTIL 1975

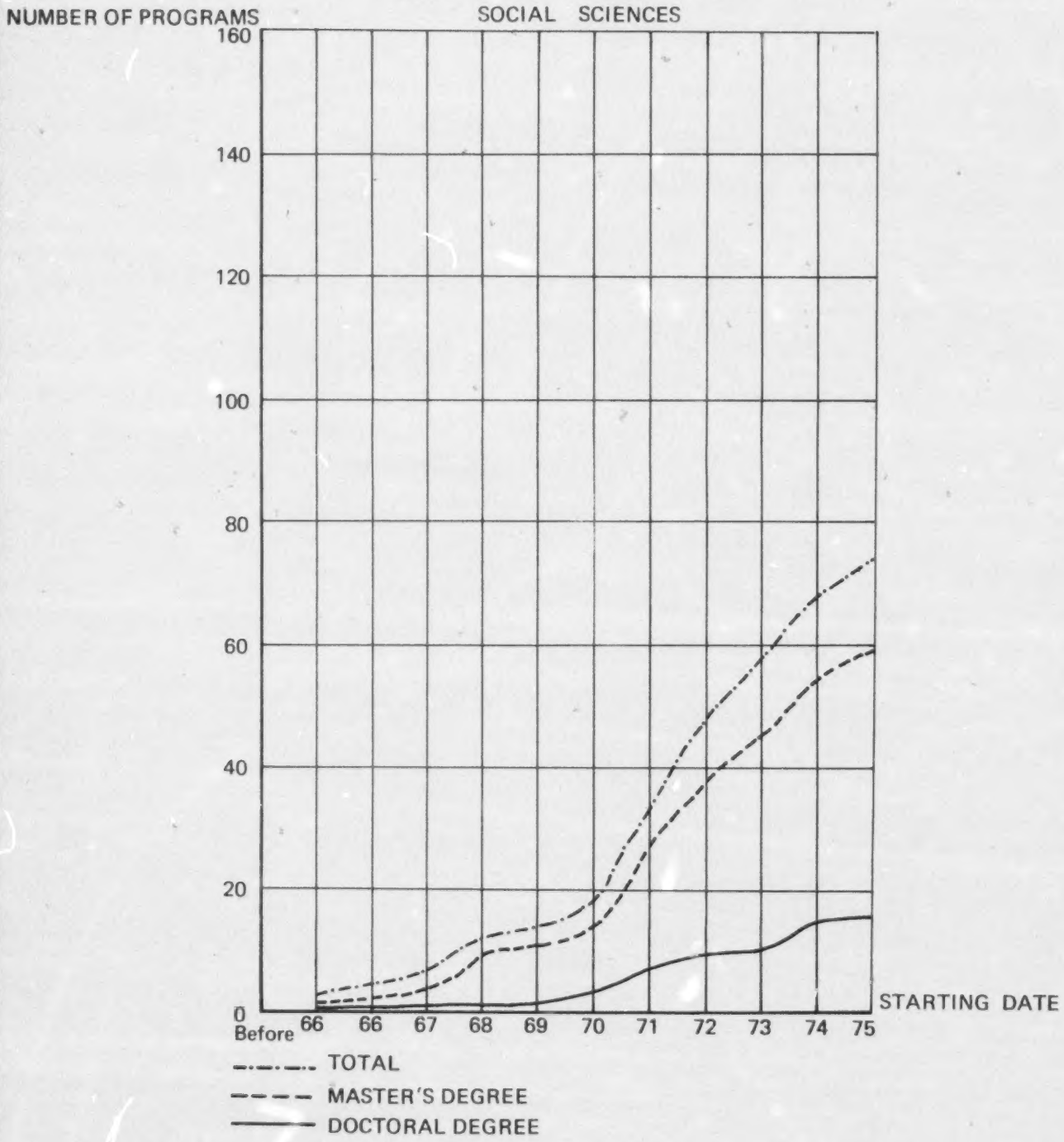


CHART 10

DEVELOPMENT OF GRADUATE DEGREE PROGRAMS IN BRAZIL UNTIL 1975

SOCIAL PROFESSIONS

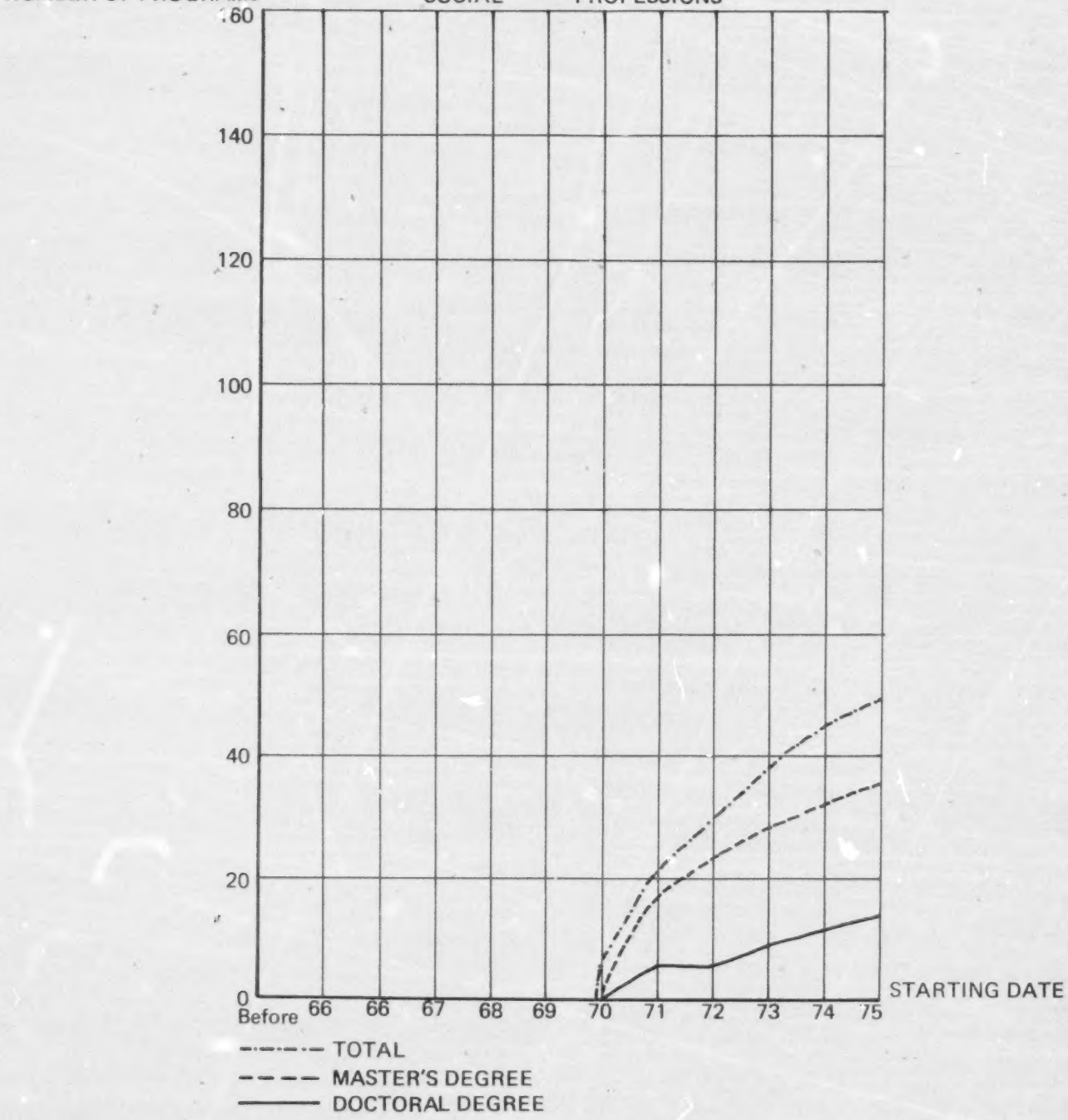


CHART 11

DEVELOPMENT OF GRADUATE DEGREE
PROGRAMS IN BRAZIL UNTIL 1975
PROFESSIONS IN THE FIELD OF AGRICULTURE AND INDUSTRY

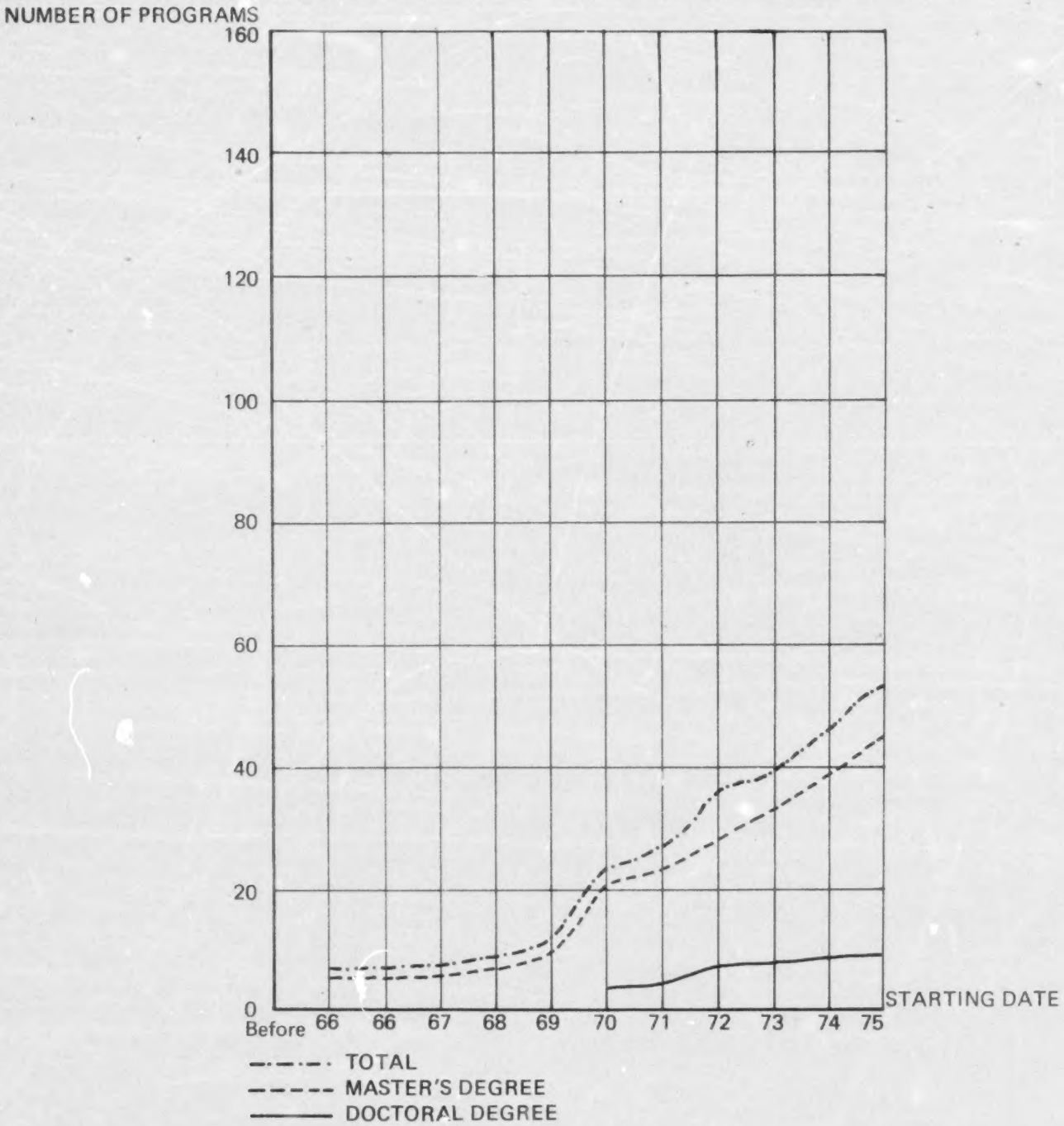
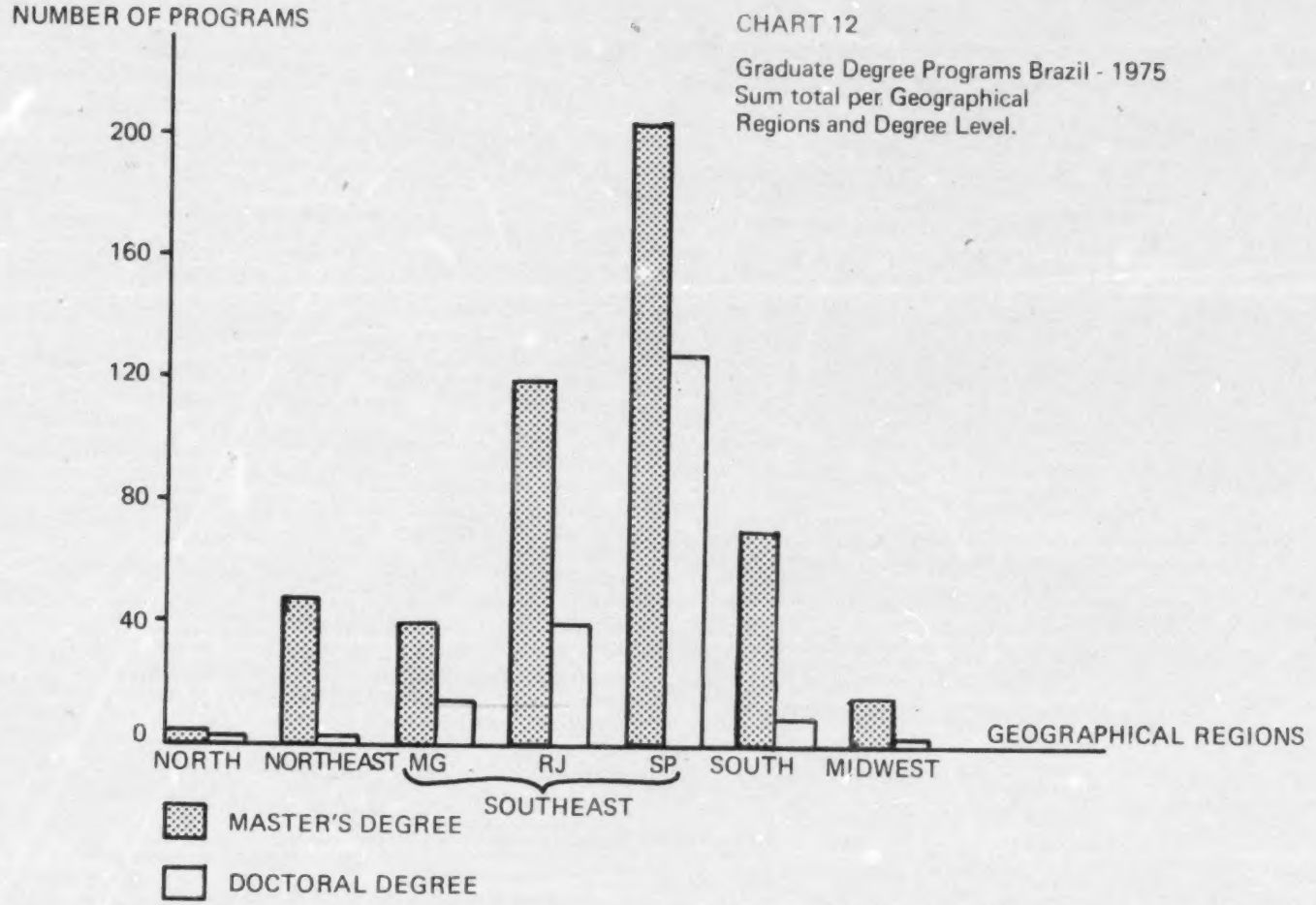


CHART 12

Graduate Degree Programs Brazil - 1975
Sum total per Geographical
Regions and Degree Level.



## 2 - TEACHING STAFF

2.1. In 1975 there were a total of 7.745 professors dedicated to graduate studies in Brazil. Of this total, 512 were visiting Brazilian and foreign professors who should be subtracted from the total.

The Federal Institutions had 57% of the total Teaching Staff, State Institutions 32% and Private Institutions 11%.

A survey of the degree status of the professors showed that 3,319 or 42.91% have the Doctorate, 1613 or 20.86% have doctoral equivalents (Livre-Docentes), 1,848 or 23.72% have Master's Degrees, and 965 or 12.51% have graduate training in the broad sense of Uprading and Specialization courses.

Of these some professors, 67.28% are full time (40 hrs/wk) and 32.72% are part time. 71.84% of professors with the Doctorate, and 58.68% of those with Doctoral equivalency are full time while 75.17% with Master's Degrees are working full time. In the Federal Institutions, the full time professor prevails while in the private institutions the part time professor prevails (See Table 9).

2.2. Examining the teaching staff according to geographic region (See Table 10) it is seen that the full time professor generally is predominant, with the lowest percentage found however in the Southeast region of Rio de Janeiro where 56% of the professors are in full time status.

2.3. When we analyze each of the ten areas of study separately, we see that in general the number of Professors with Doctorates is greater than those with other degrees, except in the Agro-Industrial professions. Education and Engineering where the number of Master's Degree professors is greater. (See Table 11).

TABLE 9

NUMBER OF PROFESSORS AND STUDENTS ENROLLED; NUMBER OF STUDENTS PER PROFESSOR, NUMBER OF STUDENTS PER ADVISER ACCORDING TO TYPE OF INSTITUTION.

| INSTITUTION | FACULTY | | | | | | | | | | | | | | | STUDENTS ENROLLED | | | Nº OF STUDENTS PER PROFESSOR | Nº OF STUDENTS PER ADVISER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PhDs | | | LIVRE DOCENTES | | | MASTERS | | | OTHERS | | | TOTAL | | | | | | | |
| | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | * UC | THESIS | TOTAL | | |
| FEDERAL | | | | | | | | | | | | | | | | | | | | |
| UNIVERSITIES | 1009 | 327 | 1336 | 298 | 289 | 587 | 988 | 286 | 1274 | 325 | 334 | 659 | 2620 | 1236 | 3856 | 6009 | 3220 | 9229 | 1:2,4 | 1:4,9 |
| INDEPENDENT INSTITUTIONS | 235 | 31 | 266 | 50 | 46 | 96 | 148 | 12 | 160 | 31 | 18 | 49 | 464 | 107 | 571 | 721 | 416 | 1137 | 1:2,0 | 1:3,1 |
| TOTAL | 1244 | 358 | 1602 | 348 | 335 | 683 | 1136 | 298 | 1434 | 356 | 352 | 708 | 3084 | 1343 | 4427 | 6730 | 3636 | 10366 | 1:2,3 | 1:4,5 |
| STATE | | | | | | | | | | | | | | | | | | | | |
| UNIVERSITIES | 897 | 364 | 1261 | 570 | 265 | 835 | 136 | 22 | 158 | 102 | 40 | 142 | 1705 | 691 | 2396 | 5212 | 2449 | 7661 | 1:3,2 | 1:5,0 |
| INDEPENDENT INSTITUTIONS | 27 | – | 27 | 8 | – | 8 | 1 | – | 1 | – | – | – | 36 | – | 36 | 12 | – | 12 | S/A | – |
| TOTAL | 924 | 364 | 1288 | 578 | 265 | 843 | 137 | 22 | 159 | 102 | 40 | 142 | 1741 | 691 | 2432 | 5224 | 2449 | 7673 | 1:3,2 | 1:3,6 |
| PRIVATE | | | | | | | | | | | | | | | | | | | | |
| UNIVERSITIES | 155 | 127 | 282 | 16 | 46 | 62 | 70 | 98 | 168 | 19 | 41 | 60 | 260 | 312 | 572 | 2051 | 681 | 2732 | 1:4,7 | 1:7,9 |
| INDEPENDENT INSTITUTIONS | 57 | 90 | 147 | 5 | 20 | 25 | 44 | 43 | 87 | 14 | 41 | 55 | 120 | 194 | 314 | 1072 | 412 | 1484 | 1:4,7 | 1:8,8 |
| TOTAL | 212 | 217 | 429 | 21 | 66 | 87 | 114 | 141 | 255 | 33 | 82 | 115 | 380 | 506 | 886 | 3123 | 1093 | 4216 | 1:4,7 | 1:8,1 |
| SUM TOTAL | 2380 | 939 | 3319 | 947 | 666 | 1613 | 1387 | 461 | 1848 | 491 | 474 | 965 | 5205 | 2540 | 7745 | 15077 | 7178 | 22255 | 1:2,9 | 1:4,5 |

* Under Completion
FT = Full Time
PT = Part Time

TABLE 10

NUMBER OF PROFESSORS, NUMBER OF STUDENTS ENROLLED, NUMBER OF STUDENTS PER PROFESSOR, NUMBER OF STUDENTS PER ADVISER ACCORDING TO GEOGRAPHICAL AREA.

| GEOGRAPHICAL REGIONS | FACULTY | | | | | | | | | | | | | | | STUDENTS ENROLLED | | | Nº OF STUDENTS PER PROFESSOR | Nº OF STUDENTS PER ADVISER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PhDs | | | LIVRE DOCENTES | | | MASTERS | | | OTHERS | | | TOTAL | | | | | | | |
| | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | *UC | THESIS | TOTAL | | |
| NORTH | 27 | – | 27 | – | – | – | 8 | – | 8 | 1 | – | 1 | 36 | – | 36 | 32 | 17 | 49 | 1:1,3 | 1:1,8 |
| NORTHEAST | 192 | 40 | 232 | 58 | 37 | 95 | 236 | 34 | 270 | 52 | 30 | 82 | 538 | 141 | 679 | 779 | 429 | 1208 | 1:3,3 | 1:3,6 |
| SOUTHEAST - RJ | 411 | 158 | 569 | 137 | 238 | 375 | 308 | 179 | 487 | 130 | 212 | 342 | 986 | 787 | 1773 | 3750 | 2081 | 5831 | 1:3,3 | 1:6,1 |
| SOUTHEAST - MG | 246 | 107 | 353 | 40 | 18 | 58 | 280 | 56 | 336 | 76 | 76 | 152 | 642 | 257 | 899 | 1187 | 696 | 1883 | 1:2,1 | 1:4,6 |
| SOUTHEAST - SP | 1144 | 523 | 1667 | 600 | 296 | 896 | 233 | 51 | 284 | 132 | 63 | 195 | 2109 | 933 | 3042 | 7748 | 3075 | 10823 | 1:3,6 | 1:4,3 |
| SOUTH | 261 | 76 | 337 | 111 | 69 | 180 | 304 | 126 | 430 | 94 | 93 | 187 | 770 | 364 | 1134 | 1294 | 790 | 2084 | 1:1,8 | 1:4,0 |
| MIDWEST | 99 | 35 | 134 | 1 | 8 | 9 | 18 | 15 | 33 | 6 | – | 6 | 124 | 58 | 182 | 287 | 80 | 367 | 1:2,0 | 1:2,5 |
| TOTAL | 2380 | 939 | 3319 | 947 | 666 | 1613 | 1387 | 461 | 1848 | 491 | 474 | 965 | 5205 | 2540 | 7745 | 15077 | 7168 | 22245 | 1:2,9 | 1:4,5 |

* UC - Under Completion

RJ = Rio de Janeiro
MG = Minas Gerais
SP = São Paulo

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2.4. The ratio professor/students varies between 1:1.2 in the Health Fields and 1:6.3 in the Social Professions and Education. On the overage the ratio is 1 professor to 2:9 students. Analyzing the situation by sub-area or Major we see that there is the lowest ratio of 1 professor per 0.4 students in Nutrition and a high ratio of 1:11 in Social Service.

The ratio of advisor per student for thesis and Dissertation advising by Professors with the Doctorate and Equivalent (Livre-Docentes) varies from 1:16 in the health profession to 1:13.5 in Education. On the overage, this ratio is 1:45 (See Tables 11 and 12).

2.5. Comparing the total number of programs and total number of professors, the area of Education has the greatest number of professors per program followed by the Agro-Industrial professions, the Biological Sciences and Health Professions (See Table 13).

3 - STUDENT BODY

3.1. In 1975 a total of 22,245 students were enrolled in Masters' and Doctoral Level programs. Of these. 15.077 were taking credits, 7,168 were writing theses as dissertations (Table 14).

With regard to study situation, 6,396 or 28.75% are full time students, of which number 69.12% have scholarships.

3.2. The greates percentage of enrolled students (Table 14) are in the Social Sciences (16.82%), followed by the Social Professions (15.07%), the Exact Sciences (13.93%).

3.3. With regard to student openings, from 1973 to 1975, 28.473 openings were offered for the Master's Degree and 1.789 for the Doctoral Degree. Only the areas of Education and Arts do not offer a Doctoral Program (Table 15), the area with the greatest number of openings is engineering, 19.36% followed by the Social Professions, Social Sciences and the Exact Sciences.

TABLE 11

NUMBER OF PROFESSORS AND STUDENTS ENROLLED, NUMBER OF STUDENTS PER PROFESSOR AND STUDENTS PER ADVISER ACCORDING TO FIELD OF STUDY

| FIELD | FACULTY | | | | | | | | | | | | | | | ENROLLED STUDENTS | | | Nº OF STUDENTS PER PROFESSOR | Nº OF STUDENTS PER ADVISER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PhDs | | | LIVRE DOCENTES | | | MASTERS | | | OTHERS | | | TOTAL | | | | | | | |
| | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | *UC | THESIS | TOTAL | | |
| EDUCATION | 59 | 67 | 126 | 14 | 7 | 21 | 50 | 77 | 127 | 14 | 27 | 41 | 137 | 178 | 315 | 1416 | 571 | 1987 | 1:6,3 | 1:13,5 |
| EXACT SCIENCES | 629 | 81 | 710 | 141 | 21 | 162 | 272 | 30 | 302 | 106 | 23 | 129 | 1148 | 155 | 1303 | 1884 | 1014 | 2898 | 1:2,2 | 1:3,8 |
| BIOLOGICAL SCIENCES | 399 | 44 | 443 | 235 | 39 | 274 | 123 | 9 | 132 | 116 | 28 | 144 | 873 | 120 | 993 | 1393 | 803 | 2196 | 1:2,3 | 1:3,1 |
| SOCIAL SCIENCES | 249 | 128 | 377 | 59 | 22 | 81 | 106 | 74 | 180 | 29 | 37 | 66 | 443 | 261 | 704 | 2384 | 1310 | 3694 | 1:5,3 | 1:8,3 |
| ENGINEERING | 312 | 86 | 398 | 81 | 39 | 120 | 332 | 66 | 398 | 65 | 17 | 82 | 790 | 208 | 998 | 1163 | 1258 | 2421 | 1:2,5 | 1:4,8 |
| *P. F. H. | 284 | 277 | 561 | 282 | 433 | 715 | 104 | 63 | 167 | 73 | 262 | 335 | 743 | 1035 | 1778 | 1524 | 587 | 2111 | 1:1,2 | 1:1,6 |
| *SOCIAL PROFESSIONS | 88 | 117 | 205 | 19 | 73 | 92 | 78 | 72 | 150 | 25 | 46 | 71 | 210 | 308 | 518 | 2896 | 546 | 3442 | 1:6,3 | 1:11,5 |
| *P. F. I. A. | 223 | 51 | 274 | 78 | 14 | 92 | 306 | 49 | 355 | 62 | 32 | 94 | 669 | 146 | 815 | 1248 | 563 | 1811 | 1:2,2 | 1:4,8 |
| LETTERS | 130 | 82 | 212 | 35 | 18 | 53 | 16 | 21 | 37 | 1 | 2 | 3 | 182 | 123 | 305 | 1102 | 497 | 1599 | 1:5,6 | 1:6,3 |
| ARTS | 7 | 6 | 13 | 3 | – | 3 | – | – | – | – | – | – | 10 | 6 | 16 | 67 | 19 | 86 | 1:5,3 | 1:5,3 |
| TOTAL | 2380 | 939 | 3319 | 947 | 666 | 1613 | 1387 | 461 | 1848 | 491 | 474 | 965 | 5205 | 2540 | 7745 | 15077 | 7168 | 22245 | 1:2,9 | 1:4,5 |

FT = Full Time
PT = Part Time
*UC = Under Completion

TABLE 12

NUMBER OF PROFESSORS AND STUDENTS ENROLLED, NUMBER OF STUDENTS PER PROFESSOR AND PER ADVISER ACCORDING TO FIELD OF STUDY AND AREA OF SPECIALIZATION.

| FIELD | FACULTY | | | | | | | | | | | | | | | ENROLLED STUDENTS | | | Nº OF STUDENTS PER PROFESSOR | Nº OF STUDENTS PER ADVISER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PhDs | | | LIVRE DOCENTES | | | MASTERS | | | OTHERS | | | TOTAL | | | | | | | |
| | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | *UC | THESIS | TOTAL | | |
| EDUCATION | 59 | 67 | 126 | 14 | 7 | 21 | 50 | 77 | 127 | 14 | 27 | 41 | 137 | 178 | 315 | 1416 | 571 | 1987 | 1:6,3 | 1:13,5 |
| PHYSICS | 219 | 8 | 227 | 56 | 2 | 58 | 52 | 1 | 53 | 80 | 10 | 90 | 407 | 21 | 428 | 447 | 245 | 692 | 1:1,6 | 1:2,4 |
| MATHEMATICS | 210 | 39 | 272 | 30 | 3 | 33 | 159 | 20 | 179 | 11 | 2 | 13 | 433 | 64 | 497 | 694 | 297 | 991 | 1:2,3 | 1:3,1 |
| CHEMISTRY | 126 | 10 | 136 | 29 | 3 | 32 | 24 | 2 | 26 | 1 | – | 1 | 180 | 15 | 195 | 348 | 252 | 600 | 1:3,1 | 1:3,5 |
| GEOLOGY | 64 | 25 | 89 | 29 | 10 | 39 | 55 | 8 | 63 | 14 | 11 | 25 | 162 | 54 | 216 | 434 | 263 | 697 | 1:3,2 | 1:5,4 |
| BIOLOGICAL SCIENCES | 399 | 44 | 443 | 235 | 39 | 274 | 123 | 9 | 132 | 116 | 28 | 144 | 873 | 120 | 993 | 1393 | 803 | 2196 | 1:2,0 | 1:3,1 |
| SOC. ANTHRO. POL. SCIENCE | 72 | 36 | 108 | 22 | 3 | 25 | 47 | 26 | 73 | 8 | 3 | 11 | 149 | 68 | 217 | 693 | 357 | 1050 | 1:6,0 | 1:7,8 |
| PHILOSOPHY | 25 | 13 | 38 | 4 | 1 | 5 | 6 | 5 | 11 | 1 | 3 | 4 | 36 | 22 | 58 | 170 | 59 | 229 | 1:3,9 | 1:5,3 |
| HISTORY | 39 | 11 | 50 | 13 | 3 | 16 | 7 | 2 | 9 | 4 | 8 | 12 | 63 | 24 | 87 | 609 | 340 | 949 | 1:10,9 | 1:14,3 |
| GEOGRAPHY | 17 | 1 | 18 | 5 | 1 | 6 | 3 | 6 | 9 | – | 5 | 5 | 25 | 13 | 38 | 318 | 8 | 326 | 1:8,0 | 1:13,5 |
| ECONOMICS | 67 | 27 | 94 | 5 | 4 | 9 | 36 | 15 | 51 | 14 | 10 | 24 | 122 | 56 | 178 | 315 | 366 | 681 | 1:3,8 | 1:6,6 |
| PSYCHOLOGY | 35 | 35 | 70 | 10 | 10 | 20 | 7 | 20 | 27 | 2 | 4 | 6 | 54 | 69 | 123 | 340 | 167 | 507 | 1:4,1 | 1:5,6 |
| ENGINEERING | 312 | 86 | 398 | 81 | 39 | 120 | 332 | 66 | 398 | 65 | 17 | 82 | 720 | 208 | 928 | 1163 | 12582 | 13745 | 1:2,5 | 1:4,8 |
| MEDICINE | 158 | 264 | 422 | 203 | 404 | 607 | 48 | 39 | 87 | 68 | 250 | 318 | 477 | 957 | 1434 | 1079 | 390 | 1469 | 1:1,0 | 1:1,4 |
| DENTISTRY | 68 | 24 | 92 | 58 | 29 | 87 | 16 | 17 | 33 | 6 | 16 | 22 | 148 | 86 | 234 | 212 | 123 | 335 | 1:1,4 | 1:1,1 |
| PHARMACY | 36 | 5 | 41 | 17 | 3 | 20 | – | 3 | 3 | 1 | – | 1 | 54 | 11 | 65 | 59 | 22 | 81 | 1:1,2 | 1:1,3 |
| NUTRITIONAL SCIENCE | 5 | 1 | 6 | 3 | – | 3 | 23 | 3 | 26 | – | 1 | 1 | 31 | 5 | 36 | – | 15 | 15 | 1:0,4 | 1:1,6 |
| NURSING | 16 | 3 | 19 | 5 | – | 5 | 7 | – | 7 | – | – | – | 28 | 3 | 31 | 174 | 37 | 211 | 1:6,8 | 1:8,7 |

FT = Full Time
PT = Part Time
*UC = Under Completion

TABLE 12 (Contd.)

SUM TOTAL OF FACULTY AND STUDENT BODY; NUMBER OF STUDENTS PER PROFESSOR AND PER ADVISER ACCORDING TO FIELD OF STUDY AND AREA OF SPECIALIZATION.

| FIELD | FACULTY | | | | | | | | | | | | | | | ENROLLED STUDENTS | | | Nº OF STUDENTS PER PROFESSOR | Nº OF STUDENTS PER ADVISER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PhDs | | | LIVRE DOCENTES | | | MASTERS | | | OTHERS | | | TOTAL | | | | | | | |
| | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | FT | PT | TOTAL | *UC | THESIS | TOTAL | | |
| BUSINESS ADMINISTRATION | 46 | 46 | 92 | 1 | 4 | 5 | 43 | 45 | 88 | 16 | 9 | 25 | 106 | 104 | 210 | 849 | 256 | 1105 | 1:5,2 | 1:11,3 |
| LAW | 16 | 44 | 60 | 5 | 58 | 63 | 5 | 5 | 10 | 1 | 28 | 29 | 27 | 135 | 162 | 1279 | 102 | 1381 | 1:8,5 | 1:11,2 |
| LIBRARY SCIENCE | 3 | – | 3 | 1 | – | 1 | 4 | – | 4 | – | 1 | 1 | 8 | 1 | 9 | 27 | 5 | 32 | 1:3,5 | 1:8,0 |
| MASS COMMUNICATIONS | 8 | 12 | 20 | 5 | 1 | 6 | 5 | 15 | 20 | – | – | – | 18 | 28 | 46 | 267 | 66 | 333 | 1:7,2 | 1:12,8 |
| ARCHITECTURE AND URBAN PLANNING | 10 | 6 | 16 | 7 | 8 | 15 | 21 | 8 | 29 | 7 | 1 | 8 | 45 | 23 | 68 | 249 | 42 | 291 | 1:4,2 | 1:9,3 |
| SOCIAL WORK | 6 | 1 | 7 | – | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 6 | 10 | 9 | 19 | 169 | 41 | 210 | 1:11,0 | 1:2,3 |
| AGRICULTURE, FOODS AND FORESTRY | 192 | 46 | 238 | 71 | 12 | 83 | 250 | 35 | 285 | 53 | 30 | 83 | 566 | 123 | 689 | 1155 | 446 | 1601 | 1:2,1 | 1:5,0 |
| VETERINARY | 31 | 5 | 36 | 7 | 2 | 9 | 56 | 14 | 70 | 6 | 2 | 8 | 100 | 23 | 123 | 96 | 129 | 225 | 1:1,4 | 1:5,0 |
| MODERN LANGUAGES AND LINGUISTICS | 130 | 82 | 212 | 35 | 18 | 53 | 16 | 21 | 37 | 1 | 2 | 3 | 182 | 123 | 305 | 1102 | 497 | 1599 | 1:5,3 | 1:5,3 |
| ARTS | 7 | 6 | 13 | 3 | – | 3 | – | – | – | – | – | – | 10 | 6 | 16 | 67 | 19 | 86 | 1:5,3 | 1:5,3 |

FT = Full Time
PT = Part Time
*UC = Under Completion

TABLE 13

RELATION BETWEEN SUM TOTAL OF PROGRAMS AND PROFESSORS

| FIELD | NUMBER OF PROGRAMS | NUMBER OF PROFESSORS | Nº OF PROGRAMS PER PROFESSORS |
|---|---|---|---|
| EDUCATION | 19 | 315 | 1:16,5 |
| EXACT SCIENCES | 117 | 1.336 | 1:11,4 |
| BIOLOGICAL SCIENCES | 80 | 993 | 1:12,4 |
| SOCIAL SCIENCES | 72 | 701 | 1:9,7 |
| ENGINEERING | 89 | 973 | 1:10,9 |
| *P. F. H. | 146 | 1.800 | 1:12,2 |
| *SOCIAL PROFESSIONS | 49 | 514 | 1:10,5 |
| *P. F. I. A. | 53 | 812 | 1:15,3 |
| MODERN LANGUAGES AND LINGUISTICS | 47 | 285 | 1:6,1 |
| ARTS | 1 | 16 | 1:16,0 |
| TOTAL | 673 | 7.745 | 1:11,5 |

TABLE 14

STUDENT BODY - FULL-TIME AND PART-TIME ENROLLMENTS AND FINANCIAL AID

| FIELD | SUM TOTAL | | FULL-TIME STUDENTS | | | | | | PART-TIME STUDENTS | |
|---|---|---|---|---|---|---|---|---|---|---|
| | TOTAL | % | GRANTEES | % | NON GRANTEES | % | TOTAL | % | TOTAL | % |
| EDUCATION | 1987 | 8,93 | 218 | 10,97 | 197 | 9,92 | 415 | 20,89 | 1572 | 79,11 |
| EXACT SCIENCES | 2962 | 13,32 | 1180 | 39,84 | 330 | 11,14 | 1510 | 50,97 | 1452 | 49,03 |
| BIOLOGICAL SCIENCES | 2206 | 9,92 | 570 | 25,84 | 288 | 13,05 | | 38,89 | 1348 | 61,11 |
| SOCIAL SCIENCES | 3742 | 16,82 | 566 | 15,12 | 170 | 4,55 | 736 | 19,67 | 3006 | 80,33 |
| ENGINEERING | 2431 | 10,93 | 666 | 27,39 | 164 | 6,75 | 830 | 34,14 | 1601 | 65,86 |
| *P. F. H. | 2111 | 9,49 | 386 | 18,29 | 437 | 20,70 | 823 | 38,99 | 1288 | 61,01 |
| *SOCIAL PROFESSIONS | 3352 | 15,07 | 265 | 7,90 | 73 | 2,18 | 338 | 10,08 | 3014 | 89,92 |
| *P. F. I. A. | 1826 | 8,20 | 456 | 24,97 | 140 | 7,67 | 596 | 32,64 | 1230 | 67,36 |
| MODERN LANGUAGES/ LINGUISTICS | 1542 | 6,93 | 112 | 7,27 | 176 | 11,41 | 288 | 18,68 | 1254 | 81,32 |
| ARTS | 86 | 0,39 | 2 | 2,33 | – | – | 2 | 2,33 | 84 | 97,67 |
| TOTAL | 22.245 | 100,00 | 4421 | 19,87 | 1975 | 8,88 | 6396 | 28,75 | 15849 | 71,25 |

From 1973 to 1975, 54,301 candidates sought the openings of which 52,497 were for Master's Programs and 1.804 for the Doctoral Programs. The ratio of opening to candidates was 1:1.8.

3.4. The Federal Institutions offer 47.10% of the total openings, the state Institutions, 32.65% and the Private Institutions 20.25% (See Table 17).

The greatest concentration occurs in the southeast region with a total of 86.33% for both Master's and Doctoral Levels.

3.5. 80% of the opening for the period 1973-1975 are in the Southeast region, especially in São Paulo. The Federal Institutions received a total of 42% of the Candidates, the State Institutions 40.72% and the Private Institutions, 17,28%.

3.6. In the Masters' Level Programs, the greatest number of candidates is in the Social Professions 24.08%, followed by the Social Sciences 15.18%, Engineering 14.77% and the Exact Sciences 10.31%. The greatest number of doctoral candidates are in the Biological Sciences 21.70%, Engineering 16.67% and the Health Professions 16.57%.

New enrollment of 1973, 1974 and 1975 totalled 23,555 students who entered Master's Level Programs and 1,736 in the Doctoral Programs.

Of this total, the Southeast region enrolled 81.59%.

The Federal Institutions received about 50% of the total new enrollments, the State Institutions about 27.86% and Private Institutions about 21.14%.

The greatest number of new students 8,075 was in the Exact Sciences and Engineering, with 7.466 for the Master's Degree Program and 609 for the Doctorate. This represents about 31.92% of the Total in all areas.

Up until 1972, about 2,000 students received degrees. In the three year Span from 1973 to 1975, 4,797 students received degrees, 4,414 in Master's programs and 338 in Doctoral Programs. The Southeast region contributed with 84%.

The Federal Institutions confered 54.78% of the degrees, the State Institutions 28.88% and the Private Institutions, 16.34%.

TABLE 15

STUDENT BODY AND ENROLLMENT CAPACITY

| FIELD | NUMBER OF OPENINGS | | | | | | | | NUMBER OF CANDIDATES | | | | | | | | Nº OF NEW ENROLLMENTS | | | | | | | | Nº OF STUDENTS WHO EARNED A DEGREE | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MASTER'S DEGREE | | | | Ph. D. | | | | MASTER'S DEGREE | | | | Ph. D. | | | | MASTER'S DEGREE | | | | Ph. D. | | | | MASTER'S DEGREE | | | | Ph. D. | | | |
| | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. |
| EDUCATION | 530 | 813 | 775 | 2.118 | – | – | – | – | 1.070 | 1.608 | 1.380 | 4.058 | – | – | – | – | 621 | 848 | 918 | 2.387 | – | – | – | – | 57 | 102 | 241 | 400 | – | – | – | – |
| EXACT SCIENCES | 1.361 | 1.522 | 1.693 | 4.576 | 187 | 221 | 292 | 700 | 1.547 | 1.829 | 2.041 | 5.417 | 77 | 84 | 91 | 252 | 939 | 1.071 | 1.170 | 3.180 | 135 | 156 | 158 | 449 | 267 | 263 | 405 | 935 | 52 | 51 | 47 | 150 |
| BIOLOGICAL SCIENCES | 504 | 527 | 458 | 1.489 | 118 | 141 | 159 | 418 | 881 | 904 | 1.085 | 2.870 | 94 | 139 | 159 | 392 | 505 | 502 | 441 | 1.448 | 117 | 155 | 150 | 422 | 125 | 141 | 239 | 505 | 23 | 40 | 45 | 108 |
| SOCIAL SCIENCES | 1.270 | 1.378 | 1.335 | 3.983 | 10 | 48 | 35 | 93 | 2.723 | 2.817 | 2.433 | 7.973 | 10 | 35 | 27 | 72 | 1.150 | 1.051 | 1.016 | 3.217 | 10 | 28 | 19 | 57 | 58 | 91 | 248 | 397 | 7 | 1 | 4 | 12 |
| ENGINEERING | 1.972 | 1.981 | 2.175 | 6.128 | 122 | 136 | 177 | 435 | 2.369 | 2.677 | 2.713 | 7.759 | 73 | 96 | 132 | 301 | 1.397 | 1.291 | 1.598 | 4.286 | 53 | 58 | 49 | 160 | 244 | 302 | 299 | 845 | 38 | 6 | 10 | 54 |
| PROFESSIONS IN THE FIELD OF HEALTH | 825 | 804 | 948 | 2.577 | 47 | 64 | 120 | 231 | 1.128 | 1.031 | 1.265 | 3.424 | 81 | 90 | 128 | 299 | 689 | 643 | 735 | 2.067 | 35 | 48 | 85 | 163 | 53 | 78 | 247 | 378 | 1 | 11 | 15 | 27 |
| SOCIAL PROFESSIONS | 1.061 | 1.650 | 1.652 | 4.363 | 20* | 20* | 162* | 202 | 2.872 | 4.834 | 4.898 | 12.604 | 47 | 46 | 54 | 147 | 805 | 1.185 | 1.267 | 3.257 | 20 | 20 | 162 | 202 | 16 | 29 | 87 | 132 | – | – | – | – |
| PROFESSIONS IN THE FIELD OF INDUSTRY AND AGRICULTURE | 559 | 600 | 801 | 2.040 | 42 | 88 | 94 | 224 | 1.125 | 1.510 | 1.674 | 4.309 | 44 | 89 | 113 | 246 | 472 | 608 | 757 | 1.837 | 36 | 79 | 84 | 199 | 141 | 172 | 244 | 557 | 4 | 6 | 9 | 19 |
| MODERN LANGUAGES AND LINGUISTICS | 861 | 884 | 795 | 2.540 | 66 | 66 | 93 | 225 | 1.450 | 1.409 | 1.102 | 3.961 | 33 | 31 | 31 | 95 | 653 | 618 | 521 | 1.792 | 28 | 27 | 24 | 79 | 37 | 67 | 159 | 263 | – | 5 | 8 | 13 |
| ARTS | – | 64 | 32 | 96 | – | – | – | – | – | 39 | 83 | 122 | – | – | – | – | – | 64 | 22 | 86 | – | – | – | – | – | – | 2 | 2 | – | – | – | – |
| T O T A L | 8.943 | 10.303 | 10.664 | 29.910 | 612* | 784* | 1.132* | 2.528 | 15.165 | 18.658 | 18.674 | 52.497 | 459 | 610 | 735 | 1.804 | 7.231 | 7.881 | 8.445 | 23.557 | 434 | 571 | 731 | 1.736 | 998 | 1.245 | 2.171 | 4.414 | 125 | 120 | 138 | 383 |

* No information about total number of programs

GRADUATE DEGREE PROGRAMS - BRAZIL - 1975

TABLE 16

STUDENT BODY AND ENROLLMENT CAPACITY
ACCORDING TO THE DIFFERENT TYPES OF INSTITUTIONS

| INSTITUTION | NUMBER OF OPENINGS | | | | | | | | NUMBER OF CANDIDATES | | | | | | | | N.º OF NEW ENROLLMENTS | | | | | | | | N.º OF STUDENTS WHO EARNED A DEGREE | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MASTER'S DEGREE | | | | Ph. D. | | | | MASTER'S DEGREE | | | | Ph. D. | | | | MASTER'S DEGREE | | | | Ph. D. | | | | MASTER'S DEGREE | | | | Ph. D. | | | |
| | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. |
| FEDERAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNIVERSITIES | 3.415 | 4.292 | 4.768 | 12.475 | 201 | 214 | 398 | 813 | 4.944 | 7.505 | 7.590 | 20.039 | 189 | 211 | 241 | 641 | 2.793 | 3.532 | 4.183 | 10.508 | 160 | 157 | 305 | 622 | 477 | 551 | 1.051 | 2.079 | 15 | 27 | 46 | 88 |
| INDEPENDET INSTITUTIONS | 486 | 510 | 572 | 1.568 | 59 | 73 | 94 | 226 | 521 | 643 | 835 | 1.999 | 32 | 44 | 42 | 118 | 359 | 391 | 532 | 1.282 | 53 | 70 | 76 | 199 | 100 | 124 | 196 | 420 | 9 | 18 | 14 | 41 |
| STATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNIVERSITIES | 3.184 | 3.009 | 3.173 | 9.366 | 321 | 459 | 516 | 1.296 | 6.739 | 7.133 | 7.214 | 21.086 | 235 | 336 | 423 | 994 | 2.249 | 1.984 | 1.927 | 6.160 | 217 | 328 | 330 | 875 | 266 | 353 | 521 | 1.140 | 99 | 69 | 74 | 242 |
| INDEPENDENT INSTITUTIONS | – | – | 5 | 5 | – | – | 12 | 12 | – | – | 19 | 19 | – | – | 12 | 12 | – | – | 5 | 5 | – | – | 7 | 7 | – | – | – | – | – | – | – | – |
| PRIVATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNIVERSITIES | 1.517 | 1.557 | 1.540 | 4.614 | 25 | 25 | 93 | 143 | 2.622 | 2.398 | 2.413 | 7.433 | 2 | 19 | 17 | 39 | 1.551 | 1.500 | 1.493 | 4.544 | – | 15 | 11 | 26 | 146 | 180 | 366 | 692 | 2 | 5 | 3 | 10 |
| INDEPENDENT INSTITUTIONS | 341 | 935 | 606 | 1.882 | 6 | 13 | 19 | 38 | 339 | 979 | 603 | 1.921 | – | – | – | – | 279 | 474 | 305 | 1.058 | 4 | 1 | 2 | 7 | 9 | 37 | 37 | 83 | – | 1 | 1 | 2 |
| TOTAL | 8.943 | 10.303 | 10.664 | 29.910 | 612 | 784 | 1.132 | 2.528 | 15.165 | 18.658 | 18.674 | 52.497 | 459 | 610 | 735 | 1.804 | 7.231 | 7.881 | 8.445 | 23.557 | 434 | 671 | 731 | 1.736 | 998 | 1.245 | 2.171 | 4.414 | 125 | 120 | 138 | 383 |

TABLE 17

STUDENT BODY AND ENROLLMENT CAPACITY PER GEOGRAPHICAL AREA

| REGION | NUMBER OF OPENINGS | | | | | | | | NUMBER OF CANDIDATES | | | | | | | | N.º OF NEW ENROLLMENTS | | | | | | | | N.º OF STUDENTS WHO EARNED A DEGREE | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MASTER'S DEGREE | | | | Ph. D. | | | | MASTER'S DEGREE | | | | Ph. D. | | | | MASTER'S DEGREE | | | | Ph. D. | | | | MASTER'S DEGREE | | | | Ph. D. | | | |
| | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. | 1973 | 1974 | 1975 | TOT. |
| NORTH | 30 | 15 | 15 | 60 | – | – | – | – | 34 | 38 | 45 | 117 | 1 | – | 4 | 5 | 25 | 12 | 15 | 52 | 1 | – | 4 | 5 | – | 4 | 20 | 24 | – | – | 1 | 1 |
| NORTHEAST | 512 | 524 | 656 | 1.692 | 5 | 5 | 5 | 15 | 672 | 745 | 906 | 2.323 | 5 | 3 | 2 | 10 | 374 | 371 | 567 | 1.312 | 5 | 2 | 1 | 8 | 46 | 41 | 193 | 280 | – | – | – | – |
| SOUTHEAST - RJ[1] | 2.502 | 3.118 | 3.243 | 8.863 | 172 | 173 | 408 | 753 | 3.291 | 5.590 | 5.296 | 14.177 | 66 | 91 | 72 | 229 | 2.148 | 2.652 | 2.968 | 7.768 | 123 | 136 | 253 | 512 | 369 | 441 | 659 | 1.469 | 15 | 29 | 32 | 76 |
| SOUTHEAST - MG[2] | 490 | 650 | 675 | 1.815 | 47 | 64 | 70 | 181 | 1.355 | 1.508 | 1.215 | 4.078 | 113 | 130 | 154 | 397 | 374 | 517 | 587 | 1.478 | 43 | 46 | 50 | 139 | 129 | 122 | 167 | 418 | 5 | 6 | 12 | 23 |
| SOUTHEAST - SP[3] | 4.385 | 4.723 | 4.531 | 13.639 | 362 | 508 | 607 | 1.477 | 8.622 | 9.171 | 9.140 | 26.933 | 257 | 362 | 450 | 1.069 | 3.659 | 3.564 | 3.461 | 10.684 | 246 | 363 | 404 | 1.013 | 318 | 456 | 699 | 1.473 | 102 | 79 | 85 | 266 |
| SOUTH | 842 | 1.070 | 1.241 | 3.153 | 26 | 26 | 34 | 86 | 999 | 1.352 | 1.621 | 3.972 | 17 | 16 | 17 | 50 | 538 | 621 | 741 | 1.900 | 16 | 16 | 18 | 50 | 108 | 156 | 374 | 638 | 3 | 6 | 8 | 17 |
| MIDWEST | 182 | 203 | 303 | 688 | – | 8 | 8 | 16 | 192 | 254 | 451 | 897 | – | 8 | 36 | 44 | 113 | 144 | 206 | 463 | – | 8 | 1 | 9 | 28 | 25 | 59 | 112 | – | – | – | – |
| T O T A L | 8.943 | 10.303 | 10.664 | 29.910 | 612 | 784 | 1.132 | 2.528 | 15.165 | 18.658 | 18.674 | 52.497 | 459 | 610 | 735 | 1.804 | 7.231 | 7.881 | 8.445 | 23.557 | 434 | 571 | 731 | 1.736 | 998 | 1.245 | 2.171 | 4.414 | 125 | 120 | 138 | 383 |

1 - RIO DE JANEIRO
2 - MINAS GERAIS
3 - SAO PAULO

The Exact Sciences contributed with the greatest number of degrees conferred, both at the Masters' and Doctoral Levels with 22.61%.

Engineering followed with 18.74%. The forecost for 1976 is a total of 2,961 degrees conferred, with a distribution of 2,633 at the Master's Level and 304 at the Doctoral Level.

3.7. During the years 1973/75 11,596 students dropped out of programs with the greatest percentage in engineering, 34.11% followed by the Exact Sciences with 18.50% and then the Social Sciences with 10.71% (See Tables 18 and 19).

3.8. The trend is an increase in number of those who remain in the graduate system, but the continuation of the low percentage of degrees conferred in relation to the number of new students. (See Table 20).

3.9. With regard to the number of thoses completed up to June 30, 1975, tables 21,22 and 23 present detailed information according to area of study. About 4.000 theses and dissertations had been concluded up to the end of 1973, to which were added 2.097 for the period of April 1, 1974 to June 30, 1975.

The highest percentage of thoses and dissertations completed belongs to Engineering at 23.14%, followed by the Exact Sciences at 18.2% and finally the Health Professions at 15.9%.

TABLE 18

STUDENT BODY - NUMBER OF DROPOUTS

| FIELD | TOTAL OF DROPOUTS |
|---|---|
| EDUCATION | 954 |
| EXACT SCIENCES | 2.145 |
| BIOLOGICAL SCIENCES | 300 |
| SOCIAL SCIENCES | 1.242 |
| ENGINEERING | 3.956 |
| *P. F. H. | 652 |
| *SOCIAL PROFESSIONS | 869 |
| *P. F. I. A. | 740 |
| MODERN LANGUAGES AND LINGUISTICS | 738 |
| ARTS | – |
| T O T A L | 11.596 |

TABLE 19

STUDENT BODY - NUMBER OF DROPOUTS PER FIELD OF STUDY AND AREA OF SPECIALIZATION

| FIELD | TOTAL NUMBER OF DROPOUTS |
|---|---|
| EDUCATION | 954 |
| PHYSICS | 552 |
| MATHEMATICS, STATISTICS | 1.265 |
| CHEMISTRY | 292 |
| GEOLOGY | 36 |
| BIOLOGICAL SCIENCES | 300 |
| SOCIOLOGY, ANTHROPOLOGY AND POLITICAL SCIENCE | 389 |
| PHILOSOPHY | 133 |
| HISTORY | 219 |
| GEOGRAPHY | 25 |
| ECONOMICS | 256 |
| PSYCHOLOGY | 220 |
| ENGINEERING | 3.956 |
| MEDICINE AND PUBLIC HEALTH | 392 |

TABLE 19 (Contd.)

STUDENT BODY AND NUMBER OF DROPOUTS

| FIELD | TOTAL OF DROPOUTS |
|---|---|
| DENTISTRY | 70 |
| PHARMACY | 121 |
| NUTRITIONAL SCIENCE | 35 |
| NURSING | 34 |
| BUSINESS ADMINISTRATION | 215 |
| LAW | 452 |
| LIBRARY SCIENCE | 45 |
| MASS COMMUNICATIONS | 86 |
| ARCHITECTURE | 53 |
| SOCIAL WORK | 18 |
| AGRICULTURE, FORESTRY AND FOODS | 655 |
| VETERINARY | 85 |
| MODERN LANGUAGES AND LINGUISTICS | 738 |
| ARTS | – |

TABLE 20

| YEAR | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
|---|---|---|---|---|---|---|
| NEW STUDENTS ENROLLED: | 2568 | 4463 | 6240 | 7665 | 8452 | 9176 |
| CONTINUED ENROLLMENT: | 500 | 1227 | 2720 | 3873 | 6462 | 13069 |
| WHO CONTINUED | | 40,0% | 47,8% | 43,2% | 56,0% | 87,6% |
| TOTAL N.º OF STUDENTS (100%) | 3068 | 5690 | 8960 | 11.538 | 14.914 | 22.245 |
| WHO EARNED A DEGREE | | 16,8% | 10,7% | 9,3% | 9,4% | 9,2% |
| DROP-OUTS | | 10,4% | 8,7% | 10,1% | 7,0% | 3,8% |





NUMBER OF PROGRAMS AND PERCENTAGE OF STUDENS WHO PURSUED A DEGREE, EARNED A DEGREE AND NUMBER OF DROPOUTS IN 1970/1975.

TABLE 21

NUMBER OF DISSERTATIONS AND THESES DEFENDED IN 1973, 1974 AND 1975 PER FIELD OF STUDY.

| FIELD | DISSERTATIONS AND THESES DEFENDED IN BRAZIL | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | BY THE END OF 1973 | | | BETWEEN 1/1/74 AND 30/6/75 | | | TOTAL | |
| | N.º | %1 | %2 | N.º | %1 | %2 | N.º | %3 |
| EDUCATION | 119 | 2,9 | 51,3 | 113 | 5,4 | 48,7 | 232 | 3,8 |
| EXACT SCIENCES | 708 | 17,6 | 63,9 | 400 | 19,1 | 36,1 | 1.108 | 18,1 |
| BIOLOGICAL SCIENCES | 415 | 10,3 | 60,7 | 269 | 12,8 | 39,9 | 684 | 11,2 |
| SOCIAL SCIENCES | 280 | 6,9 | 64,8 | 152 | 7,3 | 35,2 | 432 | 7,1 |
| ENGINEERING | 996 | 24,7 | 70,5 | 416 | 19,8 | 29,5 | 1.412 | 23,0 |
| *P. F. H. | 776 | 19,3 | 78,0 | 219 | 10,4 | 22,6 | 995 | 16,2 |
| *SOCIAL PROFESSIONS | 46 | 1,2 | 33,8 | 90 | 4,3 | 66,2 | 136 | 2,2 |
| P. F. I. A. | 572 | 14,2 | 66,8 | 284 | 13,5 | 33,2 | 856 | 14,0 |
| MODERN LANGUAGES AND LINGUISTICS | 117 | 2,9 | 43,2 | 154 | 7,4 | 56,8 | 271 | 4,4 |
| ARTS | – | – | – | – | – | – | – | – |
| TOTAL | 4.029 | 100% | – | 2.097 | 100% | – | 6.126 | 100% |

TABLE 22
NUMBER OF DISSERTATIONS AND THESES[1] DEFENDED IN THE PERIOD BETWEEN 01/01/1974 AND 30/06/1975, PER FIELD AND DEGREE LEVEL

| FIELD OF STUDY AND AREA OF SPECIALIZATION | GRADUATE DEGREE PROGRAMS - 1975 | | | | | | NUMBER OF DISSERTATIONS AND THESES DEFENDED IN THE PERIOD BETWEEN 01/01/1974 AND 30/06/1975 | | |
|---|---|---|---|---|---|---|---|---|---|
| | Nº OF PROGRAMS BEING OFFERED[2] | | | Nº OF PROGRAMS IN WHICH THESES AND DISSERTATIONS WERE DEFENDED | | | | | |
| | M | D | TOT. | M | D | TOT. | DISSERTATIONS | THESES | TOTAL |
| 1. EDUCATION | 19 | – | 19 | 10 | – | 10 | 113 | – | 113 |
| 2. EXACT SCIENCES | 74 | 43 | 117 | 46 | 18 | 64 | 352 | 48 | 400 |
| PHYSICS | 19 | 14 | 33 | 12 | 6 | 18 | 97 | 13 | 110 |
| MATHEMATICS | 25 | 12 | 37 | 12 | 3 | 15 | 103 | 9 | 112 |
| CHEMISTRY | 16 | 11 | 27 | 13 | 7 | 20 | 93 | 23 | 116 |
| GEOLOGY | 14 | 6 | 20 | 9 | 2 | 11 | 59 | 3 | 62 |
| 3. BIOLOGICAL SCIENCES | 54 | 26 | 80 | 33 | 17 | 50 | 210 | 59 | 269 |
| 4. SOCIAL SCIENCES | 58 | 14 | 72 | 32 | 4 | 36 | 147 | 5 | 152 |
| SOCIOLOGY/ANTHROPOLOGY | | | | | | | | | |
| POLITICAL SCIENCE | 21 | 4 | 25 | 8 | – | 8 | 44 | – | 44 |
| PHILOSOPHY AND THEOLOGY | 6 | 2 | 8 | 4 | – | 4 | 7 | – | 7 |
| HISTORY | 9 | 2 | 11 | 5 | – | 5 | 44 | – | 44 |
| GEOGRAPHY | 3 | 2 | 5 | 3 | 2 | 5 | 8 | 3 | 11 |
| ECONOMICS | 9 | 2 | 11 | 8 | 1 | 9 | 31 | 1 | 32 |
| PSYCHOLOGY | 10 | 2 | 12 | 4 | 1 | 5 | 13 | 1 | 14 |
| 5. TECHNICAL PROF. (ENGINEERING) | 65 | 24 | 89 | 50 | 6 | 56 | 407 | 9 | 416 |

TABLE 22 (Cont.)
NUMBER OF DISSERTATIONS AND THESES[1] DEFENDED IN THE PERIOD BETWEEN 01/01/1974 AND 30/06/1975, PER FIELD AND DEGREE LEVEL

| FIELD OF STUDY AND AREA OF SPECIALIZATION | GRADUATE DEGREE PROGRAMS - 1975 | | | | | | NUMBER OF DISSERTATIONS AND THESES DEFENDED IN THE PERIOD BETWEEN 01/01/1974 AND 30/06/1975 | | |
|---|---|---|---|---|---|---|---|---|---|
| | Nº OF PROGRAMS BEING OFFERED[2] | | | Nº OF PROGRAMS IN WHICH THESES AND DISSERTATIONS WERE DEFENDED | | | | | |
| | M | D | TOT. | M | D | TOT. | DISSERTATIONS | THESES | TOTAL |
| 6. PROF. IN THE FIELD OF HEALTH | 104 | 42 | 146 | 35 | 6 | 41 | 210 | 9 | 219 |
| MEDICINE | 78 | 40 | 118 | 18 | 6 | 24 | 98 | 9 | 107 |
| DENTISTRY | 18 | 2 | 20 | 11 | – | 11 | 59 | – | 59 |
| PHARMACY | 4 | – | 4 | 3 | – | 3 | 14 | – | 14 |
| NUTRITIONAL SCIENCE | 1 | – | 1 | 2 | – | 2 | 34 | – | 34 |
| NURSING | 3 | – | 3 | 1 | – | 1 | 5 | – | 5 |
| 7. SOCIAL PROFESSIONS | 36 | 13 | 49 | 11 | 1 | 12 | 89 | 1 | 90 |
| BUSINESS ADMINISTRATION | 8 | 2 | 10 | 6 | 1 | 7 | 67 | 1 | 68 |
| LAW | 16 | 11 | [illegible] | 1 | – | 1 | 2 | – | 2 |
| LIBRARY SCIENCE | 2 | – | 2 | 1 | – | 1 | 7 | – | 7 |
| MASS COMMUNICATIONS | 3 | – | 3 | – | – | – | – | – | – |
| ARCHITECTURE AND URBAN PLANNING | 5 | – | 5 | 1 | – | 1 | 5 | – | 5 |
| SOCIAL WORK | 2 | – | 2 | 2 | – | 2 | 8 | – | 8 |
| 8. PROFESSIONS IN THE FIELD OF INDUSTRY AND AGRICULTURE | 44 | 9 | 53 | 24 | 3 | 27 | 274 | 10 | 284 |
| AGRONOMY | 38 | 8 | 46 | 21 | 2 | 23 | 222 | 8 | 230 |
| VETERINARY | 6 | 1 | 7 | 3 | 1 | 4 | 52 | 2 | 54 |
| 9. MODERN LANGUAGES AND LINGUISTICS | 35 | 12 | 47 | 23 | 6 | 29 | 139 | 15 | 154 |
| 10. ARTS | 1 | – | 1 | – | – | – | – | – | – |
| TOTAL | 490 | 183 | 673 | 264 | 61 | 325 | 1.941 | 156 | 2.097 |

[1] Source of Information: Records of the Institutions offering Graduate Degree Programs: CNPq ( National Program of Research ) – MEC / DAU ( Ministry of Education / Office of University Affairs ) ( CAPES ) – August 1975 – Questionnaire $B_4$

[2] The sum total of programs includes both Master's and Doctoral Degree Programs Started between 1974 and 1975 even if no theses or dissertations had been defended. Besides the 1974/1975 Master's Degree Programs, there are 150 others which started prior to that date and which had not presented dissertations and theses at the moment of the publication of this report.

TABLE 23

NUMBER OF DISSERTATIONS AND THESES[1] DEFENDED SINCE THE BEGINNING OF GRADUATE DEGREE PROGRAMS UNTIL DECEMBER 1973, PER FIELD[2] AND DEGREE LEVEL.

| FIELD OF STUDY AND AREA OF SPECIALIZATION | NUMBER OF DISSERTATIONS AND THESES | | | TOTAL |
|---|---|---|---|---|
| | M | D | M/D | |
| 1. EDUCATION | 119 | – | – | 119 |
| 2. EXACT SCIENCES | 553 | 130 | 25 | 708 |
| PHYSICS | 169 | 32 | 25 | 226 |
| MATHEMATICS | 245 | 34 | – | 279 |
| CHEMISTRY | 69 | 64 | – | 133 |
| GEOLOGY | 70 | – | – | 70 |
| 3. BIOLOGICAL SCIENCES | 276 | 139 | – | 415 |
| 4. SOCIAL SCIENCES | 194 | – | 86 | 280 |
| SOC. ANTHROPOLOGY | | | | |
| POLITICAL SCIENCE | 105 | – | 37 | 142 |
| PHILOSOPHY | – | – | 14 | 14 |
| HISTORY | – | – | 24 | 24 |
| GEOGRAPHY | 7 | – | 11 | 18 |
| ECONOMICS | 27 | – | – | 27 |
| PSYCHOLOGY | 55 | – | – | 55 |
| 5. TECHINICAL PROFESSIONS | | | | |
| ENGINEERING | 906 | 65 | 25 | 996 |
| 6. PROFESSIONS IN THE FIELD OF HEALTH | 292 | 464 | – | 776 |
| MEDICINE | 208 | 480 | – | 688 |
| DENTISTRY | 47 | – | – | 47 |
| PHARMACY | 4 | – | – | 4 |
| NUTRITIONAL SCIENCE | 33 | 4 | – | 37 |
| NURSING | – | – | – | – |
| 7. SOCIAL PROFESSIONS | 27 | 19 | – | 46 |
| BUSINESS ADMINISTRATION | 5 | 18 | – | 23 |
| LAW | – | 1 | – | 1 |
| LIBRARY SCIENCE | 20 | – | – | 20 |
| MASS COMMUNICATIONS | – | – | – | – |
| ARCHITECTURE AND URBAN PLANNING | 2 | – | – | 2 |
| SOCIAL WORK | – | – | – | – |
| 8. PROFESSIONS IN THE FIELD OF INDUSTRY AND AGRICULTURE | 524 | 1 | 47 | 572 |
| AGRONOMY | 420 | 1 | 47 | 468 |
| VETERINARY | 104 | – | – | 104 |
| 9. MODERN LANGUAGES AND LINGUISTICS | 55 | 9 | 53 | 117 |
| 10. ARTS | – | – | – | – |
| TOTAL | 2.946 | 847 | 236 | 4.029 |

[1] Source of Information - "List of Dissertations and Theses - CAPES-1974"

[2] In the above-mentioned source of information 14 fields of study were taken into accout which were subdivided according to the different fields established by the National Program of Graduate Study (PNPG).

[3] M - Master's Degree Dissertations
D - Doctoral Theses
M/D - Dissertations or Theses which could not be related to the degree level they best fitted.